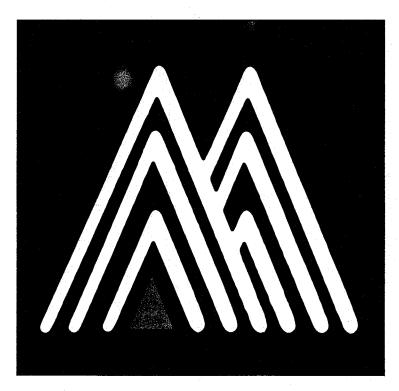
REPORT

UNDERGROUND STORAGE TANK REMOVAL MCDONNELL DOUGLAS CORPORATION

19503 SOUTH NORMANDIE AVENUE TORRANCE, CALIFORNIA 90502

MANESS PROJECT # 40443



Prepared For:

McDonnell Douglas Corporation

3855 Lakewood Boulevard
Long Beach, California 90802

Prepared By:

Maness Environmental Services, Inc.

1101 East Spring Street

Long Beach, California 90807

August 22, 1994



August 22, 1994

Maness Project # 40443

Fire Department - City of Los Angeles Permit # 3757

Mr. Scott Lattimore

McDonnell Douglas Corporation
19503 South Normandie Avenue
Torrance, California 90502

RE: UNDERGROUND STORAGE TANK REMOVAL CLOSURE REPORT, 19503 S. Normandie Avenue in Torrance, California.

Dear Mr. Lattimore:

Enclosed please find Maness Environmental Services, Inc., (Maness) final report for the closure of two 7,500 gallon and two 500 gallon hydraulic fuel oil, and two 50,000 gallon diesel fuel oil underground storage tanks (USTs) at the McDonnell Douglas Aircraft Facility at the above referenced site.

The work completed consisted of: (1) excavation, removal and disposal of the USTs and associated piping, (2) soil sample collection and analysis from beneath the former UST and spoils pile locations, (3) a site assessment, and (4) a final tank closure report, summarizing the results of all field activities and analytical testing.

Results of laboratory testing indicated that elevated concentrations of total recoverable petroleum hydrocarbons were detected in the spoils piles and in the area of the 500 gallon USTs. Maness completed a site assessment and subsequently removed the impacted soil from the excavation of the 500 gallon UST locations. The impacted soil was disposed at an approved recycling facility.

Maness appreciates the opportunity to provide environmental management services for McDonnell Douglas Corporation. If you have any questions regarding the report or require additional information, please feel free to call.

Sincerely,

Maness Environmental Services, Inc.

Gabriele E. Baader Project Geologist

cc: Los Angeles City Fire Department

Bureau of Fire Prevention

Plan Check Unit

200 North Main Street, Room 920 Los Angeles, California 90012

Attn.: Inspector Cooper

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REPORT

UNDERGROUND STORAGE TANK REMOVAL MCDONNELL DOUGLAS CORPORATION

19503 SOUTH NORMANDIE AVENUE TORRANCE, CALIFORNIA 90502

1.0 INTRODUCTION

This report summarizes tank closure operations recently completed at the McDonnell Douglas Aircraft Facility at the above referenced site.

1.1 PURPOSE AND SCOPE OF WORK

McDonnell Douglas Corporation (Douglas) engaged Maness Environmental Services, Inc., (Maness) to remove and dispose of two 7,500 gallon and two 500 gallon single wall hydraulic fuel oil, and two 50,000 gallon diesel fuel oil underground storage tanks (USTs) and associated piping at the DAC C6 facility in Torrance at the above referenced site. Figure 1 shows the location of the USTs at the facility. In addition, Maness personnel collected soil samples after the UST removal to determine whether contents previously stored in the underground storage tanks have impacted the surrounding subsurface soil.

2.0 FIELD ENGINEERING

2.1 TANK REMOVAL OPERATIONS

Before commencement of work, on behalf of the client, Maness applied for an underground storage tank closure permit at the Los Angeles City Fire Department, Underground Tank Enforcement Unit (LAFD) in Los Angeles, California. Work began as soon as the permit (#3757) was approved by LAFD (Appendix A - UST Removal Permit).

While excavating USTs or the soil in the vicinity of the USTs, the South Coast Air Quality Management District (SCAQMD) requires that the soil be monitored for volatile organic vapors (Rule 1166). Vapor concentrations are monitored to avoid adverse affects on the health and safety of personnel by using the appropriate personnel protective equipment and vapor suppressant methods.

In July 1994, during excavation of soil in the vicinity of the tanks, the soil was monitored by Maness personnel for fuel contamination. A portable organic vapor analyzer (OVA, Foxboro Model 128 GC) was passed over each load of soil removed from the excavation and the surface of the stockpiles in accordance with SCAQMD Rule 1166.

Organic vapor concentrations were not detected during the excavations. However, some discolored soil was detected in both excavations. Subsequently, the impacted soil was separated, stock piled and covered with visqueen. The SCAQMD Rule 1166 monitoring records are included in Appendix B.

On July 5, 1994, Maness properly cleaned and triple rinsed the underground storage tanks per regulatory requirements to the extent necessary for the tank removal as to minimize generating excess rinsate. The USTs were pressure rinsed sufficiently until satisfactory lower explosive limits (LEL) and total oxygen content levels were achieved. Douglas engaged Laidlaw Environmental Services, Inc. to transport the tank rinsate to Chem-Tech Systems, Inc. in Los Angeles, California, for recycling. The hazardous waste manifest is included in Appendix C.

A marine chemist certified the USTs safe for transport. Under the direction of the Los Angeles City Fire Department Inspector, Maness removed the USTs from the excavation and transported the USTs and associated piping to Lopez General Engineering Contractor in Signal Hill, California. The marine chemist certificate and the tank disposal certificate are included in Appendix D and Appendix E, respectively.

2.2 SOIL SAMPLING

Upon completion of tank removal operations, under the direction of the LAFD inspector, Maness personnel collected eleven (11) soil samples each beneath the former USTs and from the spoils piles at the subject site. Figure 1 is a site plan showing the former UST and the soil sample locations. The soil samples were collected from the UST excavation with the bucket of a back hoe tractor. The soil samples collected from the spoils piles adjacent to the excavation were collected using a hand auger sampling system.

The soil samples were collected from the following locations (see Figure 2 - UST and Soil Sample Locations South): One soil sample was collected beneath the center of each of the 500 gallon USTs, at 7 feet below grade (ft bg). A total number of three soil samples were collected beneath the two 7,500 gallon USTs, at 14 ft bg. Three samples were collected from the spoils pile (SP1 through SP3). These USTs previously contained hydraulic oil.

Figure 3 shows the former location of two 50,000 gallon USTs previously containing fuel oil. Three soil samples were collected beneath each of the tanks, at the north end, south end and the center at 16 ft bg. In addition, eight (8) soil samples were collected from the spoils piles located adjacent to the excavation. All tank confirmation samples were collected approximately three feet beneath the bottom of the former UST locations.

The soil samples were packaged in 250 milliliter Qorpak glass jars, sealed with Teflon lined lids and labeled. The samples were delivered to a mobile, on-site, state certified, analytical laboratory for immediate testing. Laboratory results and chain of custody documents are included in Appendix F and Appendix G, respectively. Maness personnel conducted all work under the direction of a California registered geologist.

3.0 SITE GEOLOGY AND HYDROGEOLOGY

The subject site overlies alluvial sediments consisting of medium brown, coarse to fine grained silty sand and light brown to light gray, coarse to fine grained sand. The surrounding topography is consistently flat. The ground surface elevation is approximately 51 feet above mean sea level (MSL).

A review of the Los Angeles County Department of Public Works hydrologic records indicates, that the first groundwater beneath the site is approximately 101 feet below ground surface. Well # 794 C is located south of 190th Street, between Western and Normandie Avenue, on the Douglas property. The monitoring well was last measured on October 15, 1993. Groundwater was not encountered during the excavation.

4.0 LABORATORY TESTING

4.1 METHODS OF ANALYSIS

Laboratory samples were collected, maintained, prepared and analyzed according to <u>Test Methods for Evaluating Solid Waste</u>, (SW-846), Third Edition, Update #2, November 1990. These methods as prescribed by the Environmental Protection Agency (EPA) provide test procedures which determine whether the sample is a hazardous waste within the definition of the Resource Conservation Recovery Act (RCRA).

A state certified, analytical laboratory (Jones Environmental, Inc., Fullerton, California) analyzed the confirmation samples, collected from beneath the former UST and spoils pile locations. The UST and spoils pile confirmation samples were analyzed for total recoverable petroleum hydrocarbons (TRPH) by EPA method 418.1, total petroleum hydrocarbons in accordance with California Department of Health Services (CADOHS) modified EPA method 8015 for diesel, and for volatile aromatic hydrocarbons as Benzene, Toluene, Ethylbenzene and total Xylenes (BTEX) in accordance with EPA test method 8020. In addition, all of the soil samples were analyzed for total lead by EPA method 7420 as required by LAFD.

4.2 RESULTS OF ANALYSIS

The laboratory results of the soil samples collected beneath the former UST locations indicated that the soil beneath the USTs at the site was not significantly impacted by petroleum hydrocarbons. The laboratory results of the UST confirmation samples showed no concentrations above the detection limit or less than LAFD action limit of 100 milligrams per kilogram (mg/kg) of petroleum hydrocarbons. However, one soil sample collected beneath the western 500 gallon UST (Figure 2) showed elevated concentrations of TRPH. Subsequently, the LAFD referred the site to the Plan Check Unit, which supervises remediation at contaminated sites within their jurisdiction (see Section 5.0 Site Assessment).

During the excavation, the soil was separated into "clean" and "contaminated" spoils piles. Results of the laboratory testing for the soil samples collected from the spoils piles indicated that some of the stockpiled soil had been impacted with TRPH. The analytical test results are summarized in Table 1 through Table 3:

TABLE 1 Soil Samples collected on July 7, 1994

SAMPLE ID	EPA 418.1 TRPH	CADOHS 8015	EPA 8020	EPA 7420	SAMPLE LOCATION
	INFII	DIESEL	BTEX	LEAD	LOCATION
T 13 - 7'	7,900	_	ND	ND	Western 500 g Center
T 14 - 7'	37	-	ND	ND	Eastern 500 g Center
T 11/12 - 14'	50	-	ND	ND	Center 7,500 g USTs
T 11 - 14'	ND	-	ND	ND ,	Western 7,500 g West
T 12 - 14'	ND	LD	ND	ND	East 7,500 g East
SP - 1	ND	-	ND	ND	South Spoils Pile West
SP - 2	2,100	-	ND	ND	South Spoils Pile Center
SP - 3	4,600	-	ND	ND	South Spoils Pile East
SP - 4	ND	ND	ND	ND	North Spoils Pile East
SP - 5	ND	ND	ND	ND	North Spoils Pile
SP - 6	ND	ND	ND	ND	Western Spoils Pile
SP - 7	170	ND	ND	ND	Western Spoils Pile
SP - 8	360	ND	ND	ND	Western Spoils Pile
SP - 9	ND	ND	ND	ND	Southw. Spoils Pile East
SP - 10	260	ND	ND	ND	Southw. Spoils Pile Center
SP - 11	ND	ND	ND	ND	Southw. Spoils Pile West
T 20 A - 16'	ND	ND	ND	ND	Western 50,000 g South
T 20 B - 16'	ND	ND	ND	ND	Western 50,000 g Center
T 20 C - 16'	ND	ND	ND	ND	Western 50,000 g North
T 19 A - 16'	ND	ND	ND	ND	Eastern 50,000 g South
T 19 B - 16'	35	ND	ND	ND	Eastern 50,000 g Center
T 19 C - 16'	52	ND	ND	ND	Eastern 50,000 g North
Detection Limit	10 mg/kg	10.0 mg/kg	5.0 ug/kg	10.0 mg/kg	

Note: ND

= not detected above detection limit

ug/kg

= microgram per kilogram

= not analyzed

mg/kg = milligram per kilogram Samples shown with depth in feet below grade

TABLE 2 Soil Samples collected on July 14 and 20, 1994

SAMPLE ID	EPA 418.1 TRPH	EPA 8020 BTEX	EPA 7420 LEAD	SAMPLE LOCATION
HA 1 - 9'	700	ND	ND 4	Center of 500 g UST
HA 1 - 12'	520	ND	ND	Center of 500 g UST
HA 1 - 15'	240	ND	ND	Center of 500 g UST
HA 1 - 20'	ND	ND	ND	Center of 500 g UST
HA 2 - 5'	ND	ND	ND	West of 500 g UST
HA 2 - 10'	ND	ND	ND	West of 500 g UST
HA 2 - 15'	ND	ND	ND	West of 500 g UST
HA 3 - 5'	ND	ND	ND	South of 500 g UST
HA 3 - 10'	ND	ND	ND	South of 500 g UST
HA 3 - 15'	63	ND	ND	South of 500 g UST
HA 3 - 20'	ND	ND	ND	South of 500 g UST
HA 4 - 9'	60	ND	ND	East of 500 g UST
HA 4 - 12'	730	ND	ND	East of 500 g UST
HA 4 - 15'	32	ND	ND	East of 500 g UST
HA 4 - 20'	ND	ND	ND	East of 500 g UST
Detection Limit	10 mg/kg	5.0 ug/kg	10.0 mg/kg	

= not detected above detection limit Note: ND

mg/kg = milligram per kilogram
ug/kg = microgram per kilogram
Samples shown with depth in feet below grade

TABLE 3 Soil Samples collected on July 20, 1994

SAMPLE ID	EPA 418.1 TRPH	CADOHS 8015 DIESEL	EPA 8020 BTEX	SAMPLE LOCATION
SP - 12	ND	ND	•	Westwest Alley Pile
SP - 13	130	ND	ND	West Alley Pile
SP - 14	160	ND	ND	East Alley Pile
SP - 15	130	ND	ND	Easteast Alley Pile
SP - 16	330	ND	ND	1. Pile South
SP - 17	160	ND	ND	1. Pile North
SP - 18	550	ND	ND	2. Pile South
SP - 19	140	ND	ND	2. Pile North
SP - 20	84	ND	-	3. Pile South
SP - 21	120	ND	ND	3. Pile North
SP - 22	270	ND	ND	4. Pile South
SP - 23	160	ND	ND	4. Pile North
SP - 24	-	ND	ND	Roll Off Bin
SP - 25	48	-	-	East of SP1 (7500g)
SP - 26	260	-	ND	West of SP2 (7500g)
Detection Limit	10 mg/kg	10.0 mg/kg	5.0 ug/kg	

Note: = not detected above detection limit ND

mg/kg = milligram per kilogram
ug/kg = microgram per kilogram
- = not analyzed

Samples shown with depth in feet below grade

5.0 SITE ASSESSMENT

In accordance with City of Los Angeles Fire Department, Plan Check Unit, (LAFD) requirements the following scope of work has been completed. Using a hand advanced auger, we completed a total of four borings in the area of the previously detected soil contamination.

The area of total recoverable petroleum hydrocarbon (TRPH) impacted soil was located beneath the former western 500 gallon UST location, previously containing hydraulic oil. According to LAFD requirements, the borings were placed approximately 5 ft outward and below the contamination. The extent of the plume was determined by placing the hand auger borings in three locations encircling the previously collected sample ID T13-7', and one boring was completed in the center. Figure 3 shows the location of the borings and Table 1 the tank confirmation sample results.

Maness completed the borings to 15 and 20 feet below grade (ft bg). Samples were recovered at approximately five foot intervals. Laboratory results for soil samples collected from the center and east of the UST to 12 ft bg (HA4) and 15 ft bg (HA1) showed concentrations of TRPH above the action limit of 100 mg/kg. Maness collected additional soil samples at 20 ft bg at location HA1 and 15 and 20 ft bg at location HA4. The test results determined that the impacted soil was localized between the bottom of the former UST location at 7 ft bg and 15 ft bg. East of the UST location the impacted soil did not extent beyond 12 ft bg. The soil samples collected west and south of the UST were none detected or less than the LAFD action limit. Table 2 summarizes the test results of the hand auger borings.

Due to the unstable condition of the sidewalls, Maness excavated approximately six cubic yards of TRPH impacted soil to a depth of 20 ft bg beneath the former UST location and stabilized the bottom of the excavation with pea gravel.

Maness personnel removed all of the TRPH impacted soil from the affected area. Subsequently, Douglas instructed Maness to complete a profile of the TRPH impacted spoils piles generated from the excavations. Maness collected and analyzed additional soil samples, to determine whether all of the separated soil was impacted. Figure 2 and Figure 4 show the locations of fifteen (15) soil samples collected from the spoils piles. Table 3 summarizes the results.

Upon approval by the LAFD Plan Check Unit, Maness backfilled and properly compacted the excavation to 95% at optimum moisture content. The backfill material consists of clean cohesive soil, free from organic materials and refuse. The certified compaction report is included in Appendix H.

6.0 CONCLUSIONS

McDonnell Douglas Corporation engaged Maness to perform an underground storage tank closure at the Douglas Aircraft facility at 19503 South Normandie Avenue in Torrance, California. According to all applicable state, county and City of Los Angeles guidelines, Maness removed two 50,000 gallon, two 7,500 gallon and two 500 gallon underground storage tanks, previously storing fuel and hydraulic oil, from the subject site.

The analytical results of soil samples collected beneath the former USTs indicate that the petroleum hydrocarbon impacted subsurface soil has been removed from the excavation. During the excavation, the contaminated soil was placed on separate spoils piles. Analysis of the soil samples collected from the separated piles showed total recoverable petroleum hydrocarbons above the LAFD clean-up criteria in several spoils piles. Upon profiling, a total of 542.49 tons of TRPH impacted soil was transported to TPS Technology, Inc. recycling facility in Adelanto, California. The non-hazardous waste data forms are included in Appendix I.

The tank removal operation was supervised by a California registered geologist. The excavation was backfilled with clean imported soil and certified compacted to 95%.

7.0 LIMITATIONS

Maness Environmental Services, Inc., performs professional services using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar localities. The findings are based primarily upon analytical results provided by an independent laboratory. Interpretations of the subsurface conditions at the site, for the purpose of this investigation, are made from a limited number of available data points (example: soil samples) and subsurface conditions may be different in other locations.

Maness appreciates the opportunity to provide environmental management services for McDonnell Douglas Corporation. If you have any questions regarding the report or require additional information, please feel free to call.

Sincerely,

Maness Environmental Services, Inc.

Gabriele E. Baader Project Geologist

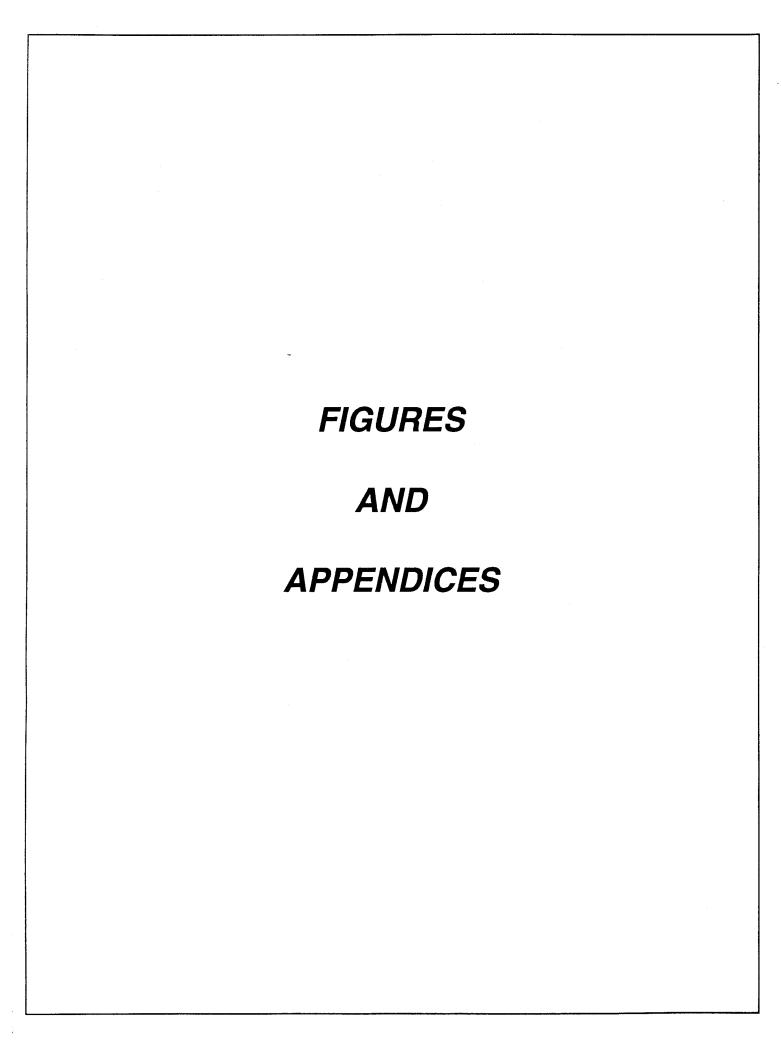
Gary Runnells, R.E.A., R.G.

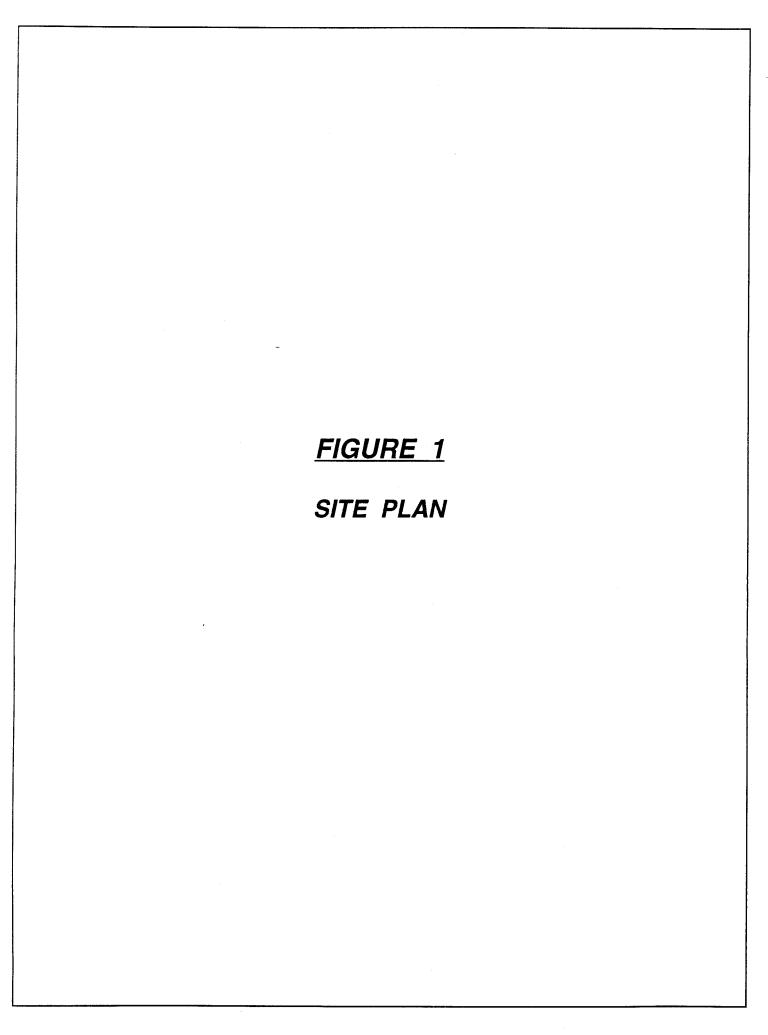
Rumelle

Registered Geologist









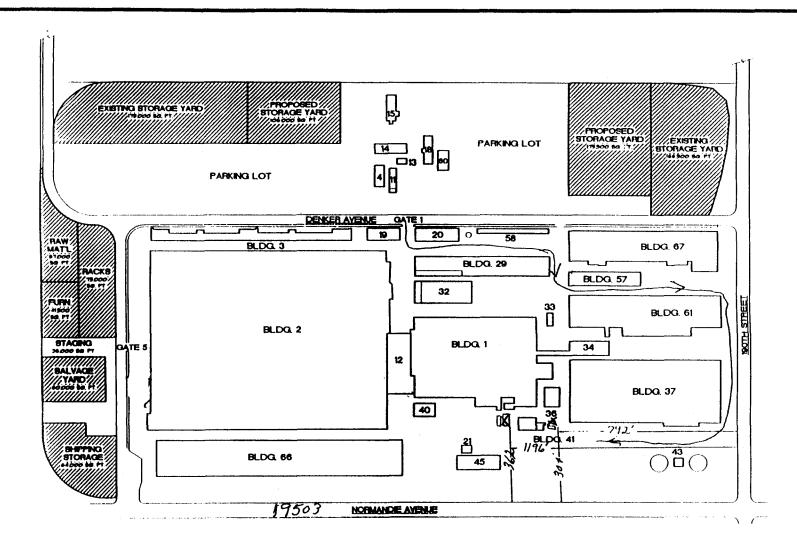


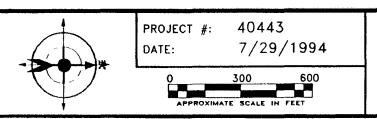
FIGURE 1
SITE PLAN

SITE LOCATION

DOUGLAS AIRCRAFT COMPANY 19503 S. NORMANDIE AVE TORRANCE CALIFORNIA 90502

PREPARED FOR

DOUGLAS AIRCRAFT COMPANY 19503 S. NORMANDIE AVE TORRANCE CALIFORNIA 90502



DRAWN BY: G. BAADER

CHECKED BY: G. RUNNELLS

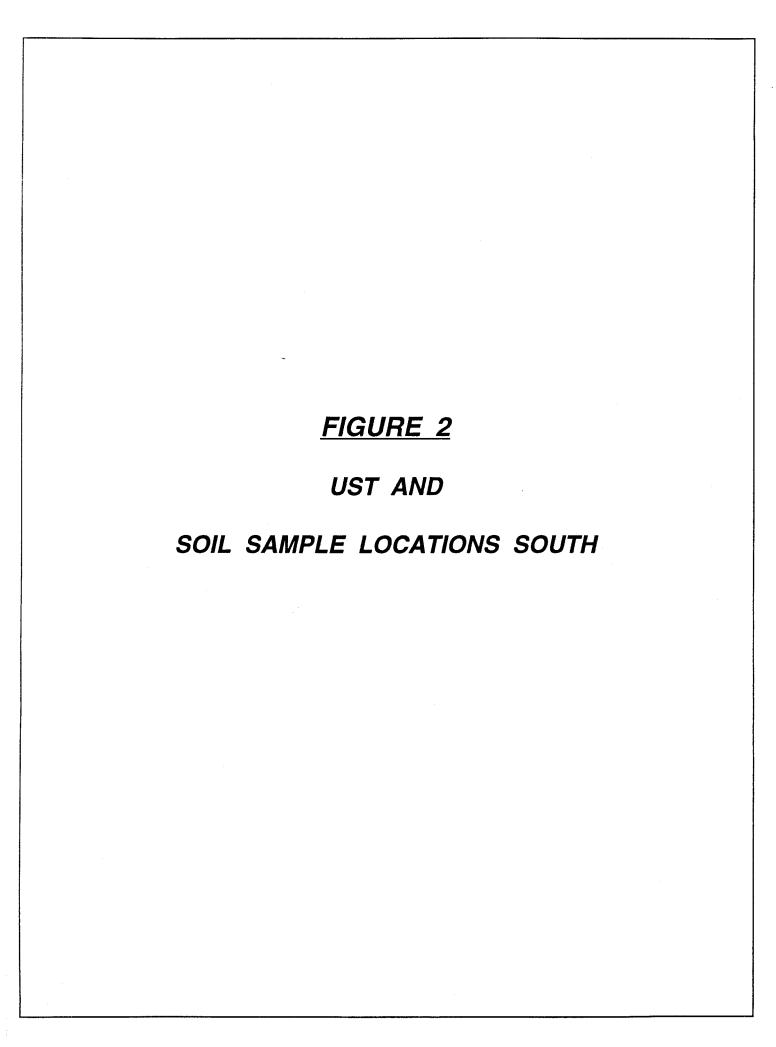
APPROVED BY: D. HERRERA



MANESS ENVIRONMENTAL SERVICES INC.

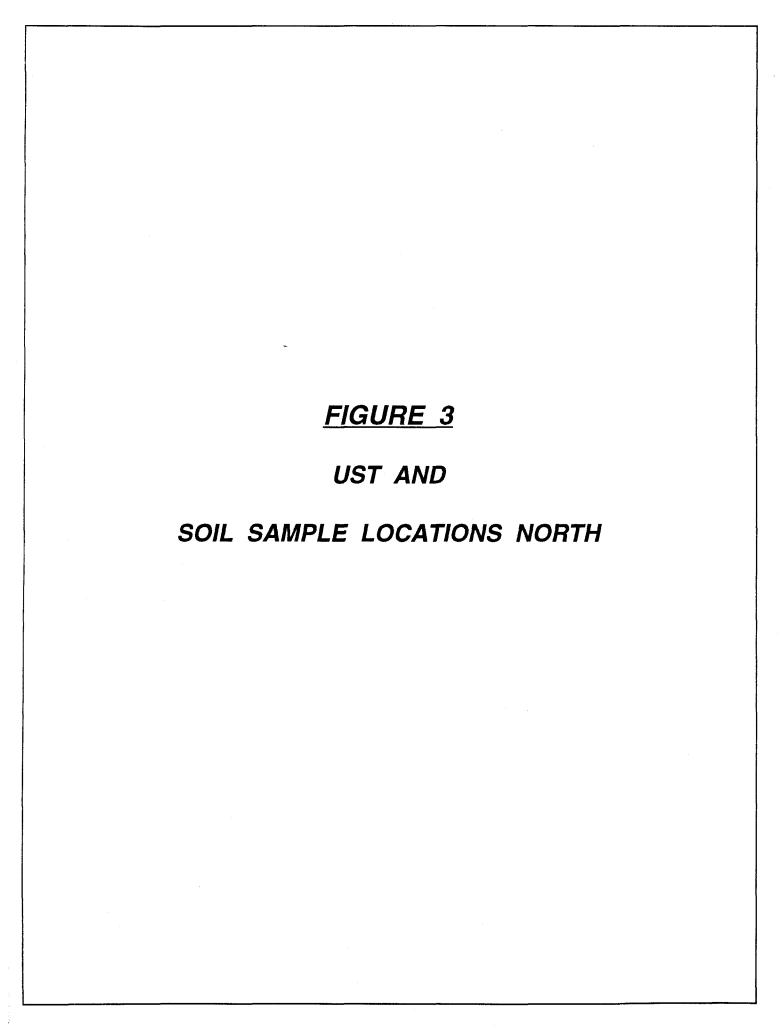
A DIVISION OF MANESS INDUSTRIES

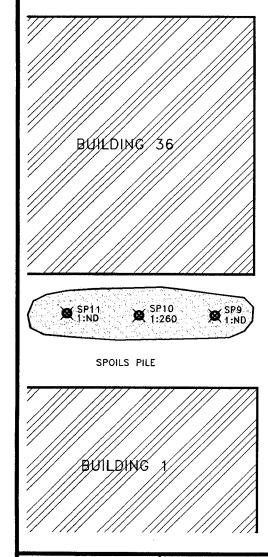
1101 E. SPRING ST., P.O. BOX 90939, LONG BEACH, CA. 90809-0939 CONTRACTOR LICENSE NO. 553633, TEL (310) 595-4555, FAX (310) 492-6495



APPROXIMATE SCALE IN FEET

BOE-C6-0060467





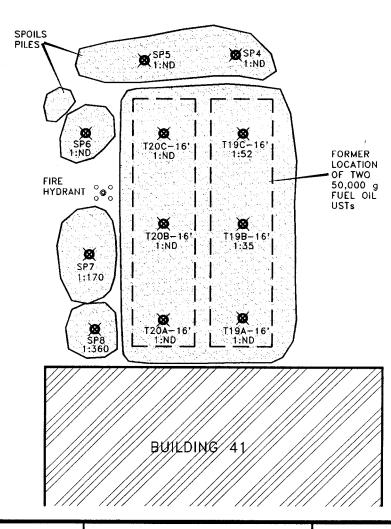


FIGURE 3

UST AND SOIL SAMPLE LOCATIONS NORTH

SITE LOCATION

DOUGLAS AIRCRAFT COMPANY 19503 S. NORMANDIE AVE **TORRANCE** CALIFORNIA 90502

PREPARED FOR

DOUGLAS AIRCRAFT COMPANY 19503 S. NORMANDIE AVE **TORRANCE** CALIFORNIA 90502

LEGEND

SOIL SAMPLE LOCATIONS

1 418.1 TRPH RESULTS ND NONE DETECTED NO TPH (DIESEL), BTEX OR LEAD DETECTED ALL RESULTS IN MILLIGRAMS PER KILOGRAM



PROJECT #:

40443

07/21/1994

APPROXIMATE SCALE IN FEET

DRAWN BY:

G. BAADER

CHECKED BY: G. RUNNELLS

APPROVED BY: D. HERRERA

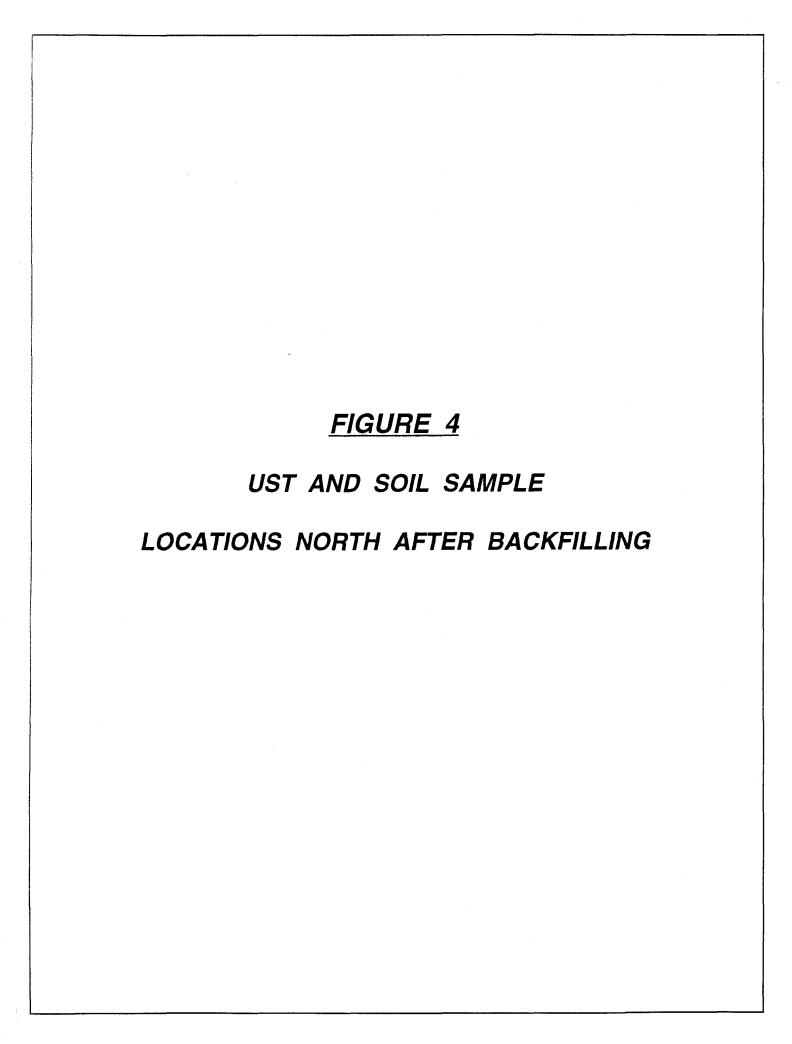


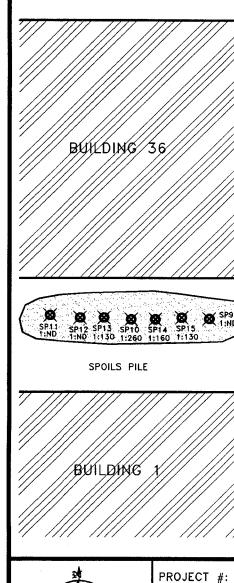
MANESS

ENVIRONMENTAL SERVICES INC.

A DIVISION OF MANESS INDUSTRIES

1101 E. SPRING ST., P.O. BOX 90939, LONG BEACH, CA. 90809-0939 CONTRACTOR LICENSE NO. 553633, TEL (310) 595-4555, FAX (310) 492-6495





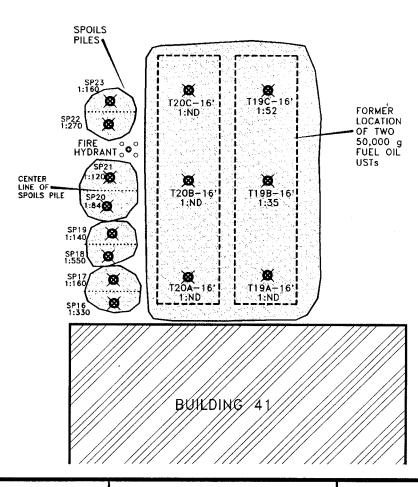


FIGURE 4

UST AND SOIL SAMPLE LOCATIONS NORTH AFTER BACKFILLING

SITE LOCATION

DOUGLAS AIRCRAFT COMPANY 19503 S. NORMANDIE AVE **TORRANCE** CALIFORNIA 90502

PREPARED FOR

DOUGLAS AIRCRAFT COMPANY 19503 S. NORMANDIE AVE **TORRANCE** CALIFORNIA 90502

LEGEND

SOIL SAMPLE LOCATIONS

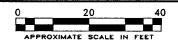
1 418.1 TRPH RESULTS ND NONE DETECTED NO TPH (DIESEL), BTEX OR LEAD DETECTED ALL RESULTS IN MILLIGRAMS PER KILOGRAM



40443

DATE:

07/21/1994



DRAWN BY:

G. BAADER

CHECKED BY: G. RUNNELLS

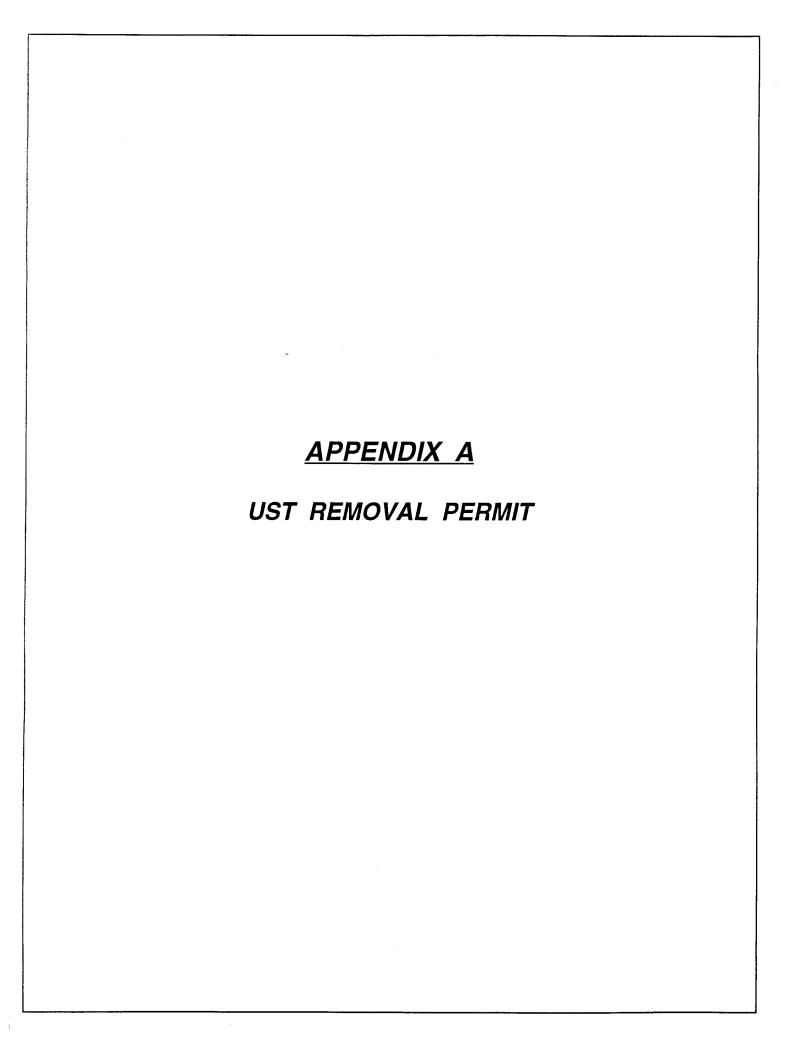
APPROVED BY: D. HERRERA



ENVIRONMENTAL SERVICES INC.

A DIVISION OF MANESS INDUSTRIES

1101 E. SPRING ST., P.O. BOX 90939, LONG BEACH, CA. 90809-0939 CONTRACTOR LICENSE NO. 553633, TEL (310) 595-4555, FAX (310) 492-6495



FIRE DEPARTMENT - CITY OF LOS ANGELES

APPLICATION FOR PERMIT - ATMOSPHERIC UNDERGROUNDTANK

Permit No. 3757

Date of Application 6/8/94

LEASE PRINT OR	IIPB								,
Name of Owner of P	roperty	100D,JR pres.	Doing Busine	css As					
DOUGLAS AIRCRAFT	CO.		_	AIRCRAFT CO.					
Add	310-593- 5								
Address of Owner		City			State	Zip		Owner's	Phone
3855 Lakewood Bl	wd	Long Beach			ca.	90846	,	310 593	3902
Address of Site		City	<u> </u>		State	Zip		Phone at	Cita
19503 S. Normana	lie Ave	Torrance			CA.	905		310 53	
Contractor's Compar MANESS ENVIRONM	Namo ENTAL SERVICES		19 P. C.					<u></u>	
Address 1101 E. S		City Long	3 Beach		State	CA. Zip	90807	Contact	dan Farrington
Signature of Applica	nt	•	Title	Contractor's Phone					
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Marie A. Marie A. Marie A. Marie A.	UGT/S TANK ENTRY/LINING/REPAIR		PAIR	State Cont	ractor	Туре/#_	A B Haz	553633	
	UGT/S ABANDON	MENTIN PLAC	E	City Busin	ess#_	704659-9	5		- Andreas - Company
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,	LOTIO ADD TO 141	TED. DIDLIA							
	UGT/S ADD TO/AL	.i EH:PIPING/[DISPENSER	}					

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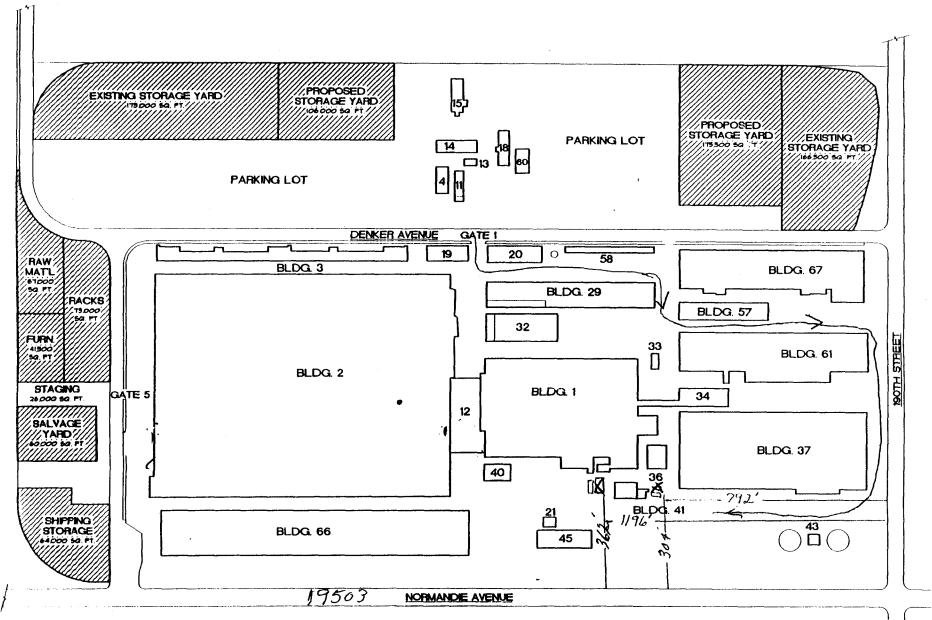
Date

Approved

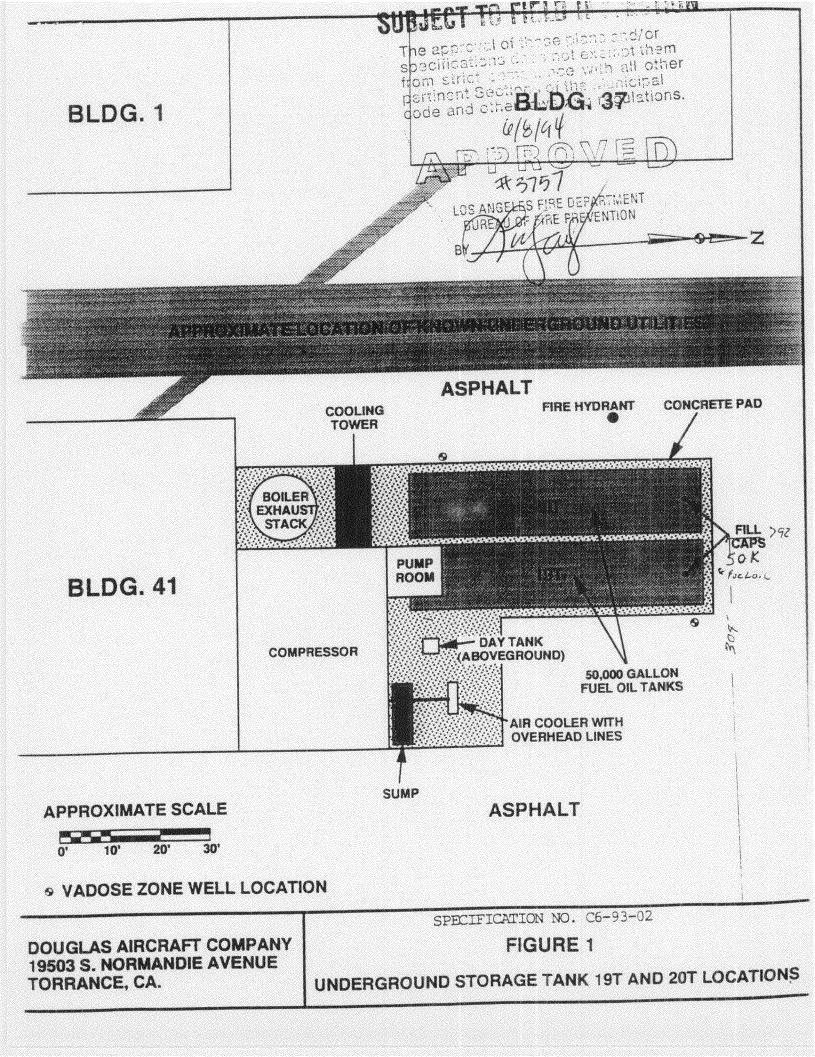
Date

Disapproved

SALVAGE YARD R/A - TORRANCE (C6) FACILITY



BOE-C6-0060474



BLDG. 1

SUBJECT TO FIELD INSPECTION

The approval of these plans and/or specifications done not exempt them from strict come mose with all other

pertinent Sections code and other is valend regulations.

CONCRETE PAD FIRE PREVENTION KB 08 **PUMPS** VENTS BLDG. 40 COOLANT **TANK 11T-12T** RECOVERY SYSTEM

APPROXIMATE LOCATION OF KNOWN UNDERGROUND UTILITIES

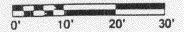
ASPHALT

TANK 13T-14T

APPROXIMATE LOCATION OF KNOWN UNDERGROUND UTILITIES

CONCRETE RAMP

APPROXIMATE SCALE



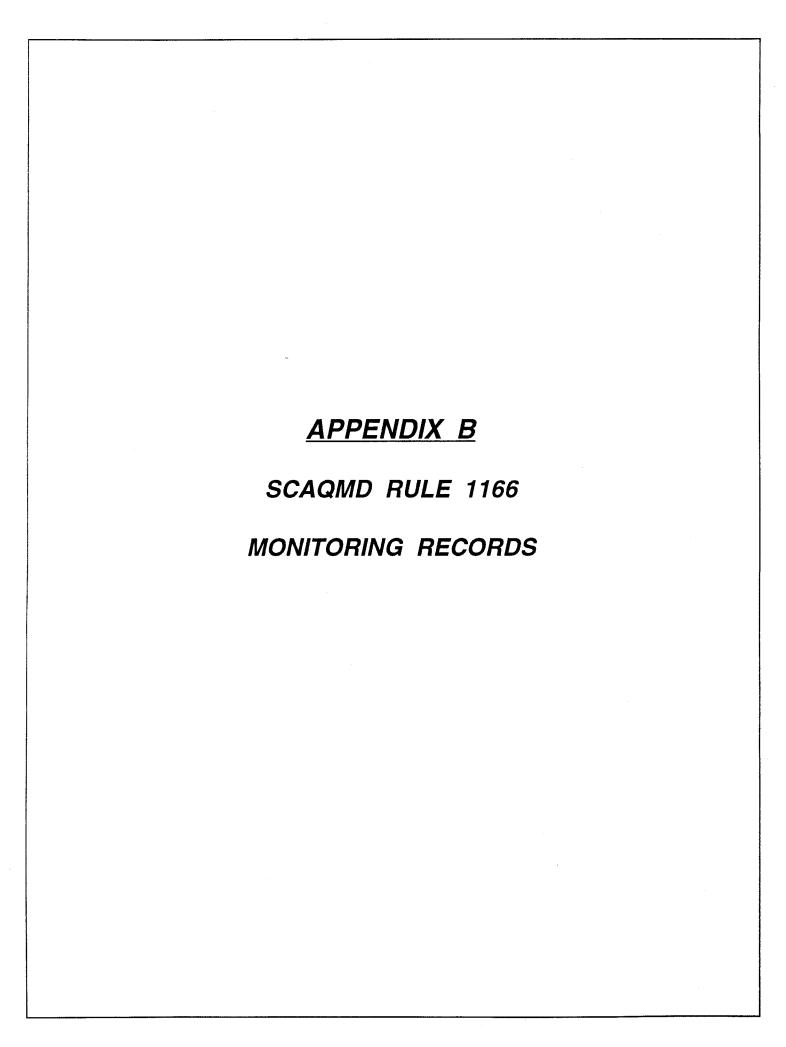
VADOSE ZONE WELL LOCATION

DOUGLAS AIRCRAFT COMPANY 19503 S. NORMANDIE AVENUE TORRANCE, CA.

SPECIFICATION NO. C6-93-01

FIGURE 1

UNDERGROUND STORAGE TANK 11T-14T LOCATIONS





South Coast AIR QUALITY MANAGEMENT DISTRICT

9150 FLAIR DRIVE, EL MONTE, CA 91731 (818) 572-6200

November 1, 1991

Maness Environmental Services Inc P. O. Box 7917 Long Beach, CA 90807-0917

Attention: David Herrera

(213) 595-4555 APPLICATION NO. 257250 COMPANY ID 69389

RULE 1166 CONTAMINATED SOIL MITIGATION PLAN

Reference is made to your Application (A/N 257250) received on October 22, 1991, for the excavation and handling of VOC-contaminated soil at various locations within the South Coast Air Quality Management District.

Your excavation and mitigation plan has been approved under the provisions of Rule 1166 of the Rules and Regulations of the SCAQMD and is subject to the following conditions.

PLAN CONDITIONS:

PROPERTY
OWNER'S
INITIALS

1. AT LEAST 24 HOURS PRIOR TO COMMENCING EXCAVATION OF UNDERGROUND TANKS WHICH HAVE STORED VOLATILE ORGANIC COMPOUNDS (VOC), THE EXECUTIVE OFFICER SHALL BE NOTIFIED OF ALL INFORMATION ITEMS LISTED IN RULE 1166(c)(1)(A) AND THE NAME OF THE COMPANY PERFORMING THE EXCAVATION.

[]GH]

IF VOC-CONTAMINATED SOIL IS DETECTED, THE EXECUTIVE OFFICER SHALL BE NOTIFIED AGAIN WITHIN 24 HOURS. BOTH NOTIFICATIONS SHALL BE MADE BY CALLING (818) 572-6195, MONDAY THROUGH FRIDAY, BETWEEN 8 A.M. AND 5 P.M.

2. THIS PLAN IS VALID ONLY FOR THE EXCAVATION AND HANDLING OF A MAXIMUM OF 2000 CUBIC YARDS OF VOCCONTAMINATED SOIL AT EACH SITE. EXCAVATION OF A GREATER AMOUNT REQUIRES SUBMITTAL OF A SITE SPECIFIC RULE 1166 EXCAVATION PLAN.

(<u>191</u>)

Maness Environmental Services Inc November 1, 1991

257250
3. ALL VCC-CONTAMINATED SOIL SHALL BE DISPOSED, [V] BACKFILLED, OR REMOVED FROM THE SITE WITHIN 40 DAYS AFTER IT HAS BEEN EXCAVATED FROM THE AFFECTED AREAS.

RECORDS OF DISPOSAL OR TREATMENT OF VOC-CONTAMINATED SOIL SHALL BE MAINTAINED FOR A PERIOD OF TWO (2) YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

THE OWNER OR OPERATOR SHALL PREPARE A WRITTEN PLAN [34] WHICH INCLUDES METHODS TO TREAT THE VOC-CONTAMINATED SOIL, SCHEDULES TO HAUL THE SOIL AWAY, BACKFILL THE SOIL, OR OTHER MEANS OF DISPOSAL. THE PLAN SHALL ALSO INDICATE THAT THE NECESSARY PERMITS HAVE BEEN OBTAINED OR ARE IN THE PROCESS OF BEING OBTAINED. SUCH A PLAN SHALL BE PREPARED NO LATER THAN 5 DAYS AFTER THE COMPLETION OF THE EXCAVATION, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

THE EXCAVATION SHALL BE CONDUCTED IN 50 FT. X 50 FT. []
OR SMALLER SECTIONS TO MINIMIZE EXPOSURE OF SOIL 5.

THE EXCAVATION OPERATOR SHALL HAVE ON SITE AN ORGANIC 6. VAPOR ANALYZER (OVA) USING FLAME IONIZATION OR PHOTO IONIZATION OR OTHER ANALYTICAL METHODS COMPLYING WITH 40 CFR PART 60 APPENDIX A, EPA METHOD 21 SECTION 3.1.1.a., "DETERMINATION OF VOLATILE ORGANIC COMPOUND LEAKS, MONITORING INSTRUMENT SPECIFICATIONS".

THE OVA SHALL BE CAPABLE OF BEING CALIBRATED USING HEXANE AT A RANGE OF 0 PARTS PER MILLION BY VOLUME (PPMV) TO 50 PPMV AND AT A DETECTION RANGE OF AT LEAST 30 PPMV TO 1100 PPMV. THE OVA SHALL BE INITIALLY CALIBRATED USING HEXANE BY THE MANUFACTURER AND CALIBRATED AT LEAST ONCE AT THE BEGINNING OF EACH WORKING DAY WITH THE PROCEDURES SPECIFIED BY THE MANUFACTURER.

DURING EXCAVATION, MONITORING SHALL BE CONDUCTED TO MEASURE VOC'S AT A DISTANCE NO MORE THAN 3 INCHES ABOVE THE FRESHLY DUG SOIL BY USING AN ORGANIC VAPOR ANALYZER (OVA) DESCRIBED UNDER CONDITION 7. THIS MEASUREMENT SHALL BE MADE FOR EVERY LOAD OF SOIL AND SHALL BE TAKEN NO LONGER THAN THREE (3) MINUTES AFTER EACH LOAD OF SOUL IS EXCAVATED.

WRITTEN RECORDS OF OVA MONITORING AND CALIBRATIONS 9. REQUIRED ABOVE SHALL BE KEPT IN A FORMAT APPROVED BY THE DISTRICT. A TYPICAL FORMAT IS ATTACHED WITH THIS PLAN.

VOC-CONTAMINATED SOIL IS A SOIL WHICH REGISTERS 50 10. PPMV OR MORE WHEN MEASURED WITH AN ORGANIC VAPOR ANALYZER (CALIBRATED USING HEXANE) AT A DISTANCE OF NO MORE THAN THREE INCHES ABOVE EXCAVATED AND EXPOSED SOIL.

Maness Environmental Services Inc
. November 1, 1991
257250

11. IF THE OVA MEASUREMENT IS BETWEEN 50 PPMV AND 1000 PPMV,

Jak :

- A) THE WORKING AREA SHALL BE IMMEDIATELY SPRAYED WITH WATER, OR COVERED WITH CLEAN SOIL OR TREATED WITH A DISTRICT APPROVED SUPPRESSANT, AND
- B) EACH VOC-CONTAMINATED LOAD OF SOIL SHALL BE SPRAYED WITH WATER OR TREATED WITH A DISTRICT APPROVED VAPOR SUPPRESSANT AND BE STOCKPILED SEPARATELY.
- 12. IF THE OVA MEASUREMENT EQUALS OR IS GREATER THAN 1000 PPMV,



- A) THE WORKING AREA SHALL BE SPRAYED WITH WATER OR DISTRICT APPROVED VAPOR SUPPRESSANTS OR COVERED WITH AT LEAST 4 INCHES OF CLEAN SOIL, AND
- B) THE SOIL DUG UNDER THE ABOVE CONDITIONS SHALL BE STORED IN DISTRICT APPROVED CONTAINERS, AND
- C) IN LIEU OF CONTAINERS, OTHER MITIGATION MEASURES MAY BE SUBSTITUTED WITH PRIOR WRITTEN APPROVAL OF THE EXECUTIVE OFFICER, IF THE OWNER OR OPERATOR CAN DEMONSTRATE THAT AN ALTERNATIVE MEASURE IS EQUALLY OR MORE EFFECTIVE IN REDUCING VOC EMISSIONS. PRIOR TO THE EXECUTIVE OFFICER'S APPROVAL, THE OWNER OR OPERATOR SHALL SUBMIT A COMPREHENSIVE WRITTEN STUDY WHICH COMPARES QUANTITATIVELY THE ESTIMATED VOC EMISSIONS DIFFERENCE BETWEEN THE ALTERNATIVE MITIGATION MEASURES.
- 13. ALL VOC-CONTAMINATED SOIL SHALL BE STOCKPILED SEPARATELY FROM NON VOC-CONTAMINATED SOIL AND KEPT MOIST, COVERED OR SPRAYED WITH WATER OR WITH A FUME SUPPRESSANT TO PREVENT EMISSIONS OF PARTICULATES OR VOC.

14. AT THE END OF EACH WORKING DAY, ALL STOCKPILES SHALL BE COVERED WITH A HEAVY DUTY CONTINUOUS PLASTIC SHEET(S), JOINED AT THE SEAMS, AND SECURELY ANCHORED TO PREVENT ANY EXPOSURE OF SOIL TO THE ATMOSPHERE.

15. A STOCKPILE SHALL NOT CONTAIN MORE THAN 450 CUBIC YARDS OF SOIL.

16. WITHIN 5 DAYS AFTER THE EXCAVATION IS COMPLETED AT EACH SITE, THE WRITTEN RECORDS UNDER CONDITIONS 4 AND 9 SHALL BE SUBMITTED TO THE DISTRICT AT THE FOLLOWING ADDRESS.

SCAQMD ENFORCEMENT DIV. 9150 FLAIR DR. EL MONTE CA. 91731 17. VOC-CONTAMINATED SOIL SHALL NOT BE SPREAD ON-SITE OR OFF-SITE TO CAUSE THE EVAPORATION OF UNCONTROLLED VOC TO THE ATMOSPHERE.

[]

18. THIS PLAN IS NOT VALID FOR EXCAVATING VOC-CONTAMINATED SOILS AT LANDFILLS OR SITES USED FOR DISPOSAL OF REFUSE OR OTHER TYPES OF WASTE.

[][

19. THIS PLAN DOES NOT ALLOW ANY TREATMENT OF VOC-CONTAMINATED SOIL.



20. A COPY OF THIS PLAN SHALL BE PRESENT AT EACH EXCAVATION SITE DURING ALL SOIL HANDLING AND STORAGE PROCESSES.



21. THIS PLAN IS NOT VALID UNTIL THE VERIFICATION BELOW IS SIGNED.



SIGNED

DX TYP

Other governmental agencies may require approval before any excavation begins. It shall be the responsibility of the applicant to obtain that approval. The South Coast Air Quality Management District shall not be responsible or liable for any losses because of measures required or taken pursuant to the requirements of this approved 1166 Contaminated Soil Mitigation Plan.

If you have any questions concerning this plan, please call Mr. Arthur Lawler at (818)572-6406.

Very truly yours,

George Rhett

Supervising A. Q. Engineer

AL R1166VXE

cc: Rudy Eden, Enforcement, Data Management Branch

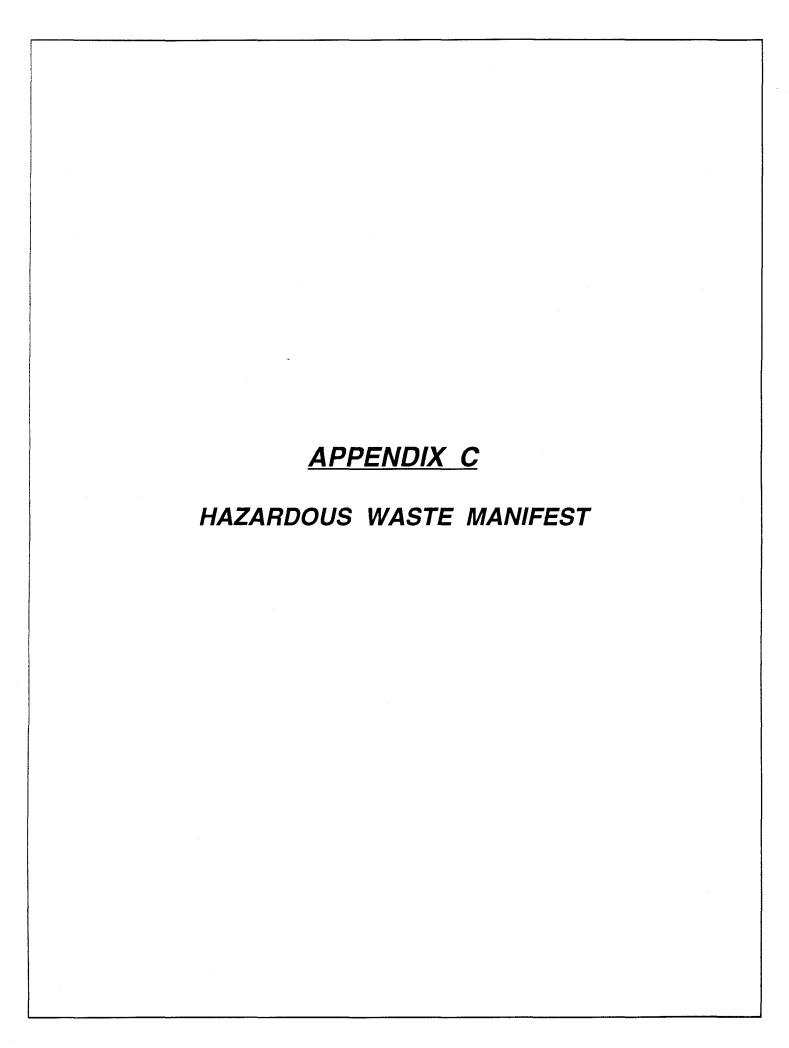
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1166 SOIL MONITORING RECORDS

OWNER: COSCS AIRCRY			MONITORING INFORMATION				
			COMPANY: MANESS EXY				
DDRESS:	Monnave	NAME	NAME OF PERSON: 200 FARENCE				
TTY: 100	~~~	MONIT	OR MFG:				
IP CODE:		MODEL	MODEL NO:				
ATE OF EXC	AVATION: 7-14	CALIE	RATION GAS				
TIME	VOC CONCENTRA	ATION (ppmV)	COMMENTS				
	EACH LOAD AS REMOVED	STOCKPILE SURFACE					
16-30		4					
1045		2	·				
1100		-6-					
Level							
1200							
1215							
1230							
100		-0-					
130							
200		-0					
SIGNATURE	•		DATE: 7.194				

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1166 EXCAVATION PLAN SOIL MONITORING RECORD

 $A \setminus N$

Douglas Aircraft Normandie	Maness Environmental Mike Miller
7/5/94	
FIELD PERSONNEL:	
TIME STOCKPILE/ PPM SURFACE	VOLATILE ORGANIC COMPOUNDS IN PARTS PER MILLION OVER WORKING SURFACE
9:45 D PPM	
10:00 0 PPM 10:15 0 PPM	
10:30 6 PPM 10:45 6 PPM	
11:00 PPM 11:15 LUNCH	
11:30 BREAK 11:45 O PPM 12:00 O PPM - end of a	
12:00 OPPM-end of ex 12:30	scavation
13:00	
1 . ~ /	
SIGNED: MIKOMATA 7	15/94



Form Approved OMB No. 2030-0039 (Expires 9-30-94)

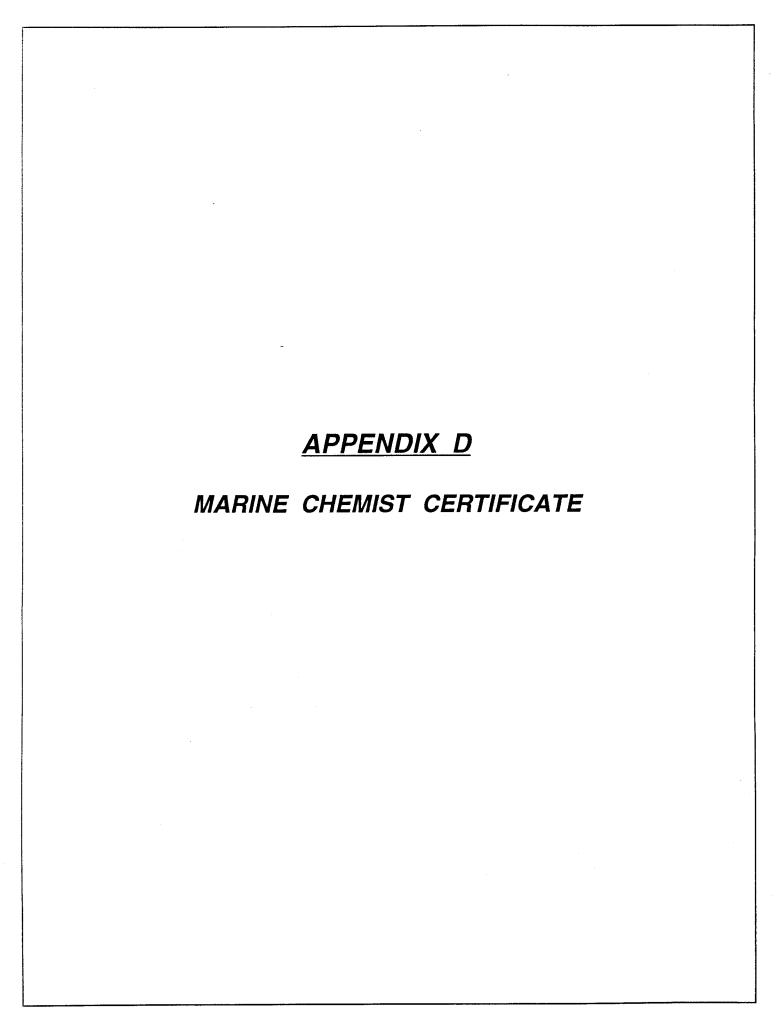
Resoluted or type. Form designed for use on elite (12-pitch) types See Instructions on back of page 6. Manifest Document No. 2. Page 1 information in the shaded preas UNIFORM HAZARDOUS is not required by Federal law. WASTE MANIFEST C|A|D|0|8|6|5<u>|1|0|0|0|5| 8| 5 | 9|0 | 1</u> of 3. Generator's Name and Mailing Address Douglas Aircraft Company Attn: Rob Tuell M/S C6-59 1-800-852-7550 19503 South Normandie Avenue, Torrance, CA 90502 4. Generator's Phone (310 535-7926 (310) 533-7231 US EPA ID Number Laidiaw Environmental Services of CA, inc. C,AD,0,0,0,0,8,3,1 CALL US EPA ID Number. 7. Transporter 2 Company Name 85961 9. Designated Facility Name and Site Address Chern-Tech Systems, Inc. 10. US EFA ID Number 3660 East 28th Street 93585 WITHIN CALIF CA |T|0|8|0|0|3|3|6|8|1 Los Angeles, CA 90023 14. Unit Wt/Vol 12. Containers 13. Total 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) Quantity (Binse water from diesel tank) that's and hydraulic est 001 Non-ACRA hazardous waste liquid CERTIFICATE OF TREATMENT/RECYCLING Ę R CHEM-TECH SYSTEMS, INC. certifies that the liquid waste received A with this manifest will be treated to standards mandated by the FEDERAL CLEAN WATER ACT and the Los Angeles County Saultation 0 Districts' efficient requirements. Treatment/recycling is performed under CENTER permits granted by the California Department of Toxio-Substances Control, Environmental Protection Agency, Provisions of the Resource Conservation and Recovery Act (RCRA) of 1976, and applicable federal TACHULA CHARGE TO THE CONTROL OF THE and state regulations. The generator's responsibility for this liquid waste RESPONSE NA ON O 15. Specifithandling tratraction and Adding 24 Hour emergency termeratumanager 424- 9300 (Chemtrec). DOT ERG# 11a)31 Ž 里 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws. CALL If I am a large quantity generator, I sertify that I have a program in place to reduce the volume and textify of waste generated to the degree I have determined of treatment, storage, or disposal currently available to me which minimizes the present threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and set SP. waste management method that is available to me and that I can afford. ð Printed/Typed Name Signature Robert G. Tuell, Jr. 17. Transporter 1 Acknowledgement of Receipt of Materials EMERGEN Printed/Typed No. 18. Transporter 2 Ackno Printed/Typed Name გ Ęź 19. Discrepancy Indication Space CASE 20. Facility Owner or Operator Certification of receipt of hazordous materials covered by this monifest excess or no social item 19. Printed/Typed Name DO NOT WRITE BELOW TEDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS.

DTSC 8022A (7/92) EPA 870G--22 13<u>AC57/%%%%579/-</u>

EGEGI PO2

BOE-C6-0060485

(Generators who submit hozordous waste for transport out-af-state, produce completed copy of this copy and send to DTSC within 30 Boys.)



<i>Thomas D. Beck & Assoc., Inc.</i> LIba HARBOR TESTING LABO 24 HOUR PHONE: (310) 492-9646		CHEMIST CERTIFICATE Serial # 6717
MANESS ENV.	DOUGLAS AIRCRAFT	6 Jaly 99
SEE BEAW	Vessel Owner or Agent UNDERBROUND TANK	19503 S. NOKUMNOIL
essel	Type of Vessel	Specific Location of Vessel
DIESEL_ Last Cargo	Tests Performed	Time Survey Completed
		_
6 UNDERBROUND	TANKS / TESTE	ED ONO LEL
MARKED WITH	EWOW	20 80 AXXIA 1
GPDAV DANTO	>	20.070 0X NOBO
JAN INIV		Catherinally
	SIFE	OR TOT WORK
1717111717	2 /7/7 2 \ 10/ 5/1	E POP WORKERS
6717.1; 6717	12, 6/11.9 TO ENTE	R. NOT TESTED
1717.1 6717	5: 6717:6 / GO SPETI	PIC TOXICS.
01119,011	o join o july star	
W. W.	TANKS IAM	VE BEEN CLEANED!
	(7)182)	
11(1 11/10/16)	A MINATON O DONG HAS	1. 111164
1454 1910AUUIK	Ornorial Coopy	O JULY 1
In the event of any physical or atmos	pheric changes adversely affecting the STANDARD SAFETY DESI	GNATIONS assigned to any of the above
spaces, or if in any doubt, immediate	ely stop all work and contact the undersigned Marine Chemist.	
accumulation, unless specifically approved in heating coils, valves, and similarly enclosed STANDARD SAFETY DESIGNATIONS (partia SAFE FOR WORKERS: Means that in the commaterials in the atmosphere are within permission while maintained as directed on the Marine Che	nipulation of valves or closure equipment tending to alter conditions in in this Certificate, requires inspection and endorsement or release of Certiappurtenances shall be considered "not safe" unless otherwise special list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsections 2-3.1 through 2-3.5, and Subsections 2-3.1 through 2-3.5, and Subsections content of the atmosphere belief concentrations; and that, (c) the residues are not capable of producing to primit's Certificate.	tificate for the spaces so affected. All lines, vents, lifically designated. bsection 6-3.2) is at least 19.5 percent by volume; and that, (b) toxic oxic materials under existing atmospheric conditions

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of fiammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

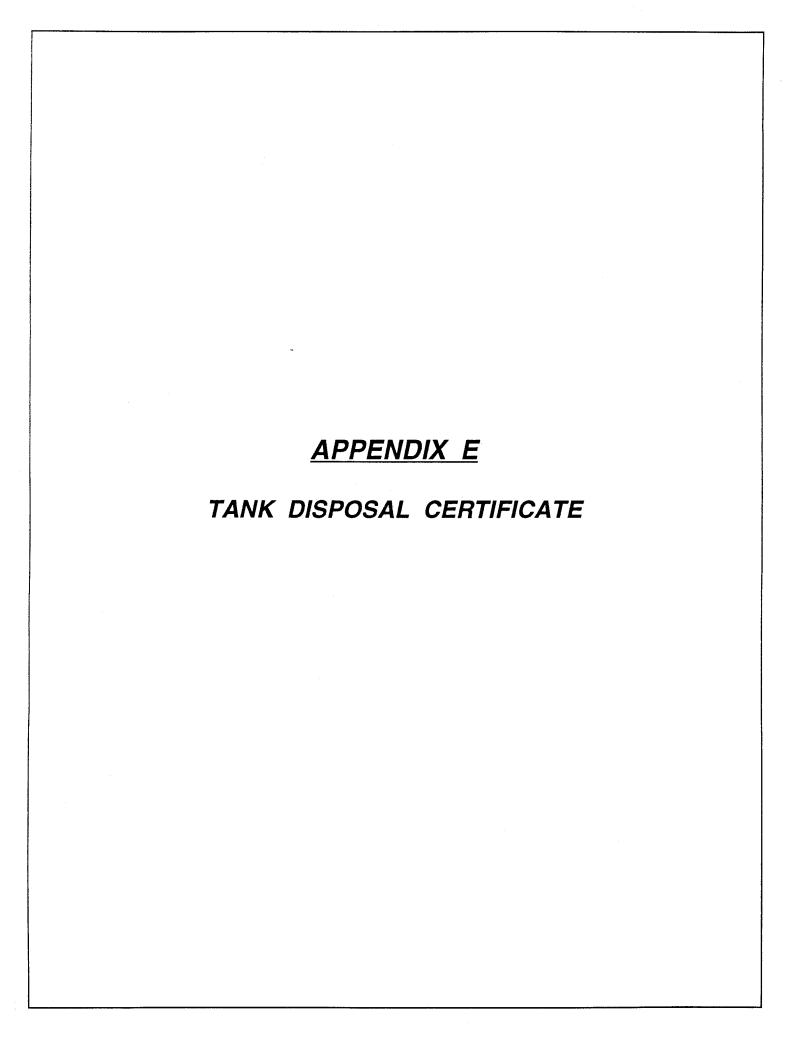
NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

The understay	ersigned acknowledges rends conditions and limitati	eceipt of this Certifions under which it	ficate under Section 2-6 of twee leaded."	NFPA 308 and
	11-1	11/2	Muse	-1,
igned	1/101	MIT.	Company (S)	461

This Certificate is based on cor issued subject to compliance y

BOE-C6-0060487





July 12, 1994

Maness Environmental ATTN: Scott Hultner 1101 E. Spring Street Long Beach, CA 90807-0917

Dear Scott,

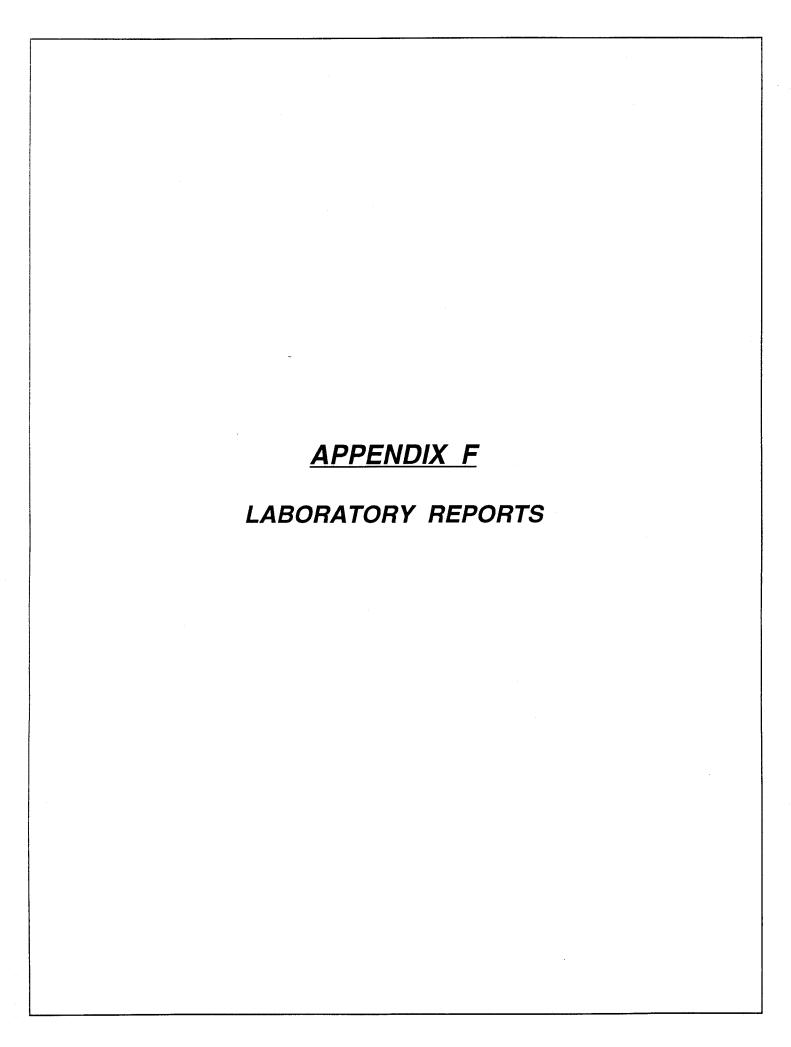
SUBJECT: TANK DESTRUCTION CERTIFICATE

This letter is to certify that tank numbers 6717-1, 6717-2, 6717-3 & 6717-4, 6717-5 & 6717-6 in accordance with Marine Chemist Certificates, Serial Numbers 6717-1, 6717-2, 6717-3 & 6717-4, 6717-5 & 6717-6. Tanks received from McDonnel Douglas, Torrance, California.

Tanks were torched and cut into scrap classification of #1 prepared scrap, the entire tanks were cut into pieces no longer than (5) five feet or wider than 1 1/2 feet in size, therefore rendering this tank into scrap steel and sold as such.

Burner(s): <u>Davi</u>	d Martinez	Elaine R. Brilly
	Luis	Vasquez	Authorized Signature ${\mathscr J}$
	<u>Rafa</u>	el Vasquez	July 12, 1994 Date
Customer	Name :	Maness Envir	conmental
Customer	P.O.#:	_Verbal - Sco	ott Hultner

Not Valid without the corporate seal and signature



TESTING LABORATORIES

LABORATORY RESULTS

Client: Client Address:	Maness Environmental 1101 E. Spring Street Long Beach, CA 90807	Report Date: 07/08/94 JEL Ref. No.: 1675 Maness Ref. No.:
Contact:	Scott Hultner	Date Sampled: 07/07/94 Date Received: 07/07/94
Project: Project Address:	Douglas Aircraft Torrance, CA	Date Analyzed: 07/07/94 Physical State: Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

		Reporting
	Concentration	Limits
Sample ID	(mg/Kg)	(mg/Kg)
		•
T13-7	7900	10.
T14-7·	37	10.
T11/12-14	50	10.
T11-14	ND	10.
T12-14	ND	10.
SP-1	ND	10.
SP-2	2100	10.
SP-3	4600	10.
SP-4	ND	10.
SP-5	ND	10.
SP-6	ND	10.
SP-7	170	10.
SP-8	360	10.
SP-9	ND	10.
SP-10	260	10.
SP-11	ND	10.
T20A-16	ND	10.
T20B-16	ND	10.
T20C-16	ND	10.
T19A-16	ND	10.
T19B-16	35	10.
T19C-16	52	10.
ND =	Not Detected	

P.O. Box 5387 • Fullerton, CA 92635 (714) 449-9937 • Fax (714) 449-9685

TESTING LABORATORIES

LABORATORY RESULTS

Client:

Maness Environmental

Client Address:

1101 E. Spring Street

Long Beach, CA 90807

Report Date: 07/08/94 **JEL Ref. No.:** 1675

Maness Ref. No.:

Contact:

Project:

Scott Hultner

Date Sampled: 07/07/94

Date Received: 07/07/94

Douglas Aircraft

Date Analyzed: 07/07/94

Physical State: Soil

Project Address:

Torrance, CA

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

QUALITY CONTROL INFORMATION

Sample Spiked:

T19A-16

Parameters	MS Recovery	MSD Recovery	RPD	Acceptable Range
Diesel	110%	111%	1.5%	65-125%
Sample Spiked:	T19C-16			
Parameters	MS Recovery	MSD Recovery	RPD	Acceptable Range
Diesel	103%	108%	4.5%	65-125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

TESTING LABORATORIES

LABORATORY RESULTS

Maness Environmental Client: **Report Date:** 07/08/94 1101 E. Spring Street **Client Address: JEL Ref. No.:** 1675 Long Beach, CA 90807 Maness Ref. No.: **Date Sampled:** 07/07/94 Scott Hultner Contact: Date Received: 07/07/94 Project: Date Analyzed: 07/07/94 Douglas Aircraft **Project Address:** Torrance, CA Physical State: Soil

Modified EPA 8015 - Semi-Volatile Hydrocarbons (Diesel)

	Concentration	Reporting Limits
Sample ID	(mg/Kg)	(mg/Kg)
SP-4	ND	10.
SP-5	ND	10.
SP-6	ND	10.
SP-7	ND	10.
SP-8	ND	10.
SP-9	ND	10.
SP-10	ND	10.
SP-11	ND	10.
T20A-16	ND	10.
T20B-16	ND	10.
T20C-16	ND	10.
T19A-16	ND	10.
T19B-16	ND	10.
T19C-16	ND	10.
	ND - Not Detected	

TESTING LABORATORIES

LABORATORY RESULTS

Client: Client Address:	Maness Environmental 1101 E. Spring Street Long Beach, CA 90807	Report Date: 07/08/94 JEL Ref. No.: 1675 Maness Ref. No.:
Contact:	Scott Hultner	Date Sampled: 07/07/94 Date Received: 07/07/94
Project: Project Address:	Douglas Aircraft Torrance, CA	Date Analyzed: 07/07/94 Physical State: Soil

EPA 8020 - Volatile Aromatic Hydrocarbons					
	Concentration				
	(1	ug/Kg)			Limits
Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes	(ug/Kg)
T13-7	ND	ND	ND	ND	5.0
T14-7	ND	ND	ND	ND	5.0
T11/12-14	ND	ND	ND	ND	5.0
T11-14	ND	ND	ND	ND	5.0
T12-14	ND	ND	ND	ND	5.0
SP-1	ND	ND	ND	ND	5.0
SP-2	ND	ND	ND	ND	5.0
SP-3	ND	ND	ND	ND	5.0
SP-4	ND	ND	ND	ND	5.0
SP-5	ND	ND	ND	ND	5.0
SP-6	ND	ND	ND	ND	5.0
SP-7	ND	ND	ND	ND	5.0
SP-8	ND	ND	ND	ND	5.0
SP-9	ND	ND	ND	ND	5.0
SP-10	ND	ND	ND	ND	5.0
SP-11	ND	ND	ND	ND	5.0
T20A-16	ND	ND	ND	ND	5.0
T20B-16	ND	ND	ND	ND	5.0
T20C-16	ND	ND	ND	ND	5.0
T19A-16	ND	ND	ND	ND	5.0
T19B-16	ND	ND	ND	ND	5.0
T19C-16	ND .	ND	ND	ND	5.0

TESTING LABORATORIES

LABORATORY RESULTS

Client:

Maness Environmental

Client Address:

1101 E. Spring Street

Long Beach, CA 90807

Report Date: 07/08/94 **JEL Ref. No.:** 1675

Maness Ref. No.:

Contact:

Scott Hultner

Date Sampled: 07/07/94

Project:

Douglas Aircraft

Date Received: 07/07/94 Date Analyzed: 07/07/94

Project Address:

Torrance, CA

Physical State: Soil

EPA 8020 - Volatile Aromatic Hydrocarbons

QUALITY CONTROL INFORMATION

Sample Spiked:

T19A-16

Parameters	MS Recovery	MSD Recovery	RPD	Acceptable Range
	•			
Toluene	101%	105%	3.2%	65-125%
o-Xylene	100%	105%	4.3%	65-125%
Sample Spiked:	T19C-16			
	MS	MSD		Acceptable
_			DDD	•
<u>Parameters</u>	Recovery	Recovery	<u> RPD</u>	Range
Toluene	102%	103%	0.7%	65-125%
o-Xylene	102%	102%	0.1%	65-125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

TESTING LABORATORIES

LABORATORY REPORT

Client:

Maness Environmental

Client Address:

1101 E. Spring Street

Long Beach, CA 90807

Report Date: 07/08/94

JEL Ref. No.: 1675

Maness Ref. No.:

Contact:

Scott Hultner

Date Sampled: 07/07/94

Date Received: 07/07/94

Project:

Douglas Aircraft

Date Analyzed: 07/07/94

Project Address:

Torrance, CA

Physical State: Soil

22 soil samples were received sealed, chilled, and intact.

22 soil samples were analyzed for volatile aromatic hydrocarbons by EPA 8020, and for total recoverable petroleum hydrocarbons by EPA 418.1.

14 soil samples were analyzed for semi-volatile hydrocarbons by modified 8015 as diesel.

Approval:

Steve Jones, Ph.D.

Laboratory Manager

LABORATORY RESULTS

Client:	Jones Environmental	Report Date:	07/13/94
Client Address:	P. O. Box 5387	FEL Ref. No.:	1579
	Fullerton, CA 92635	Client Ref. No.:	Maness Environmental
Attn:	Steve Jones	Date Sampled:	07/07/94
		Date Received:	07/08/94
Project:	Douglas Aircraft	Date Extracted:	07/08/94
Project Address:	19503 S. Normandie	Date Analyzed:	07/12/94
_	Torrance, CA	Physical State:	Soil

EPA 7420 - Total Lead by Flame AA

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
T11/12-14	ND	10
T11-14	ND	10
T12-14	ND	10
SP-1	ND	10
SP-2	ND	10
SP-3	ND	10
SP-4	ND	10
SP-5	ND	10
SP-6	ND	10
SP-7	ND	10
SP-8	ND	10
SP-9	ND	10
SP-10	ND	10
SP-11	ND	10
T20-A16	ND	10
T20-B16	ND	10
T20-C16	ND	10
T19-A16	ND	10
T19-B16	ND	10
T19-C16	ND	10

LABORATORY RESULTS

Client: Client Address:	Jones Environmental P. O. Box 5387 Fullerton, CA 92635	Report Date: FEL Ref. No.: Client Ref. No.:	07/14/94 1600 Maness
Attn:	Steve Jones	Date Sampled: Date Received: Date Extracted:	07/07/92 07/12/94 07/13/94
Project: Project Address:	Douglas Aircraft Torrance, CA	Date Analyzed: Physical State:	07/13/94 Soil

EPA 7420 - Total Lead by Flame AA

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
T13-7	ND	10
T14-7	ND	10

QUALITY CONTROL INFORMATION

Client:

Jones Environmental

Client Address:

P. O. Box 5387

Fullerton, CA 92635

Report Date:

07/13/94

FEL Ref. No.:

1579

Client Ref. No.:

Maness Environmental

Attn:

Steve Jones

Date Sampled: Date Received: 07/07/94 07/08/94

Project:

Douglas Aircraft

Date Extracted:

07/08/94

Project Address:

19503 S. Normandie

Date Analyzed:

07/12/94

Torrance, CA

Physical State:

Soil

EPA 7420 - Total Lead by Flame AA

LMB

(mg/Kg)

LCS Recovery (%)

Lead

Parameter

ND

102

Sample Spiked: FEL 1579-18

<u>Parameter</u>	MS <u>Recovery (%)</u>	MSD Recovery (%)	<u>RPD</u>	Acceptability Range (%)	RPD Range (%)
Lead	101	100	0.79	80 - 120	20

LMB

= Laboratory Method Blank

LCS

= Laboratory Control Sample

ND

= Not Detected

MS

= Matrix Spike

MSD

= Matrix Spike Duplicate

RPD

= Relative Percent Difference

QUALITY CONTROL INFORMATION

Client:

Jones Environmental

Client Address:

P. O. Box 5387

Fullerton, CA 92635

Report Date:

07/14/94

FEL Ref. No.: Client Ref. No.: 1600 Maness

Attn:

Steve Jones

Date Sampled:

07/07/92

Date Received:

07/12/94

Date Extracted:

07/13/94

Project:

Douglas Aircraft

Date Analyzed:

07/13/94

Project Address:

Torrance, CA

Physical State:

Soil

EPA 7420 - Total Lead by Flame AA

LMB

LCS

<u>Parameter</u>

(mg/Kg)

Recovery (%)

Lead

ND

104

Sample Spiked: FEL 1600-1

<u>Parameter</u>	MS <u>Recovery (%)</u>	MSD <u>Recovery (%)</u>	RPD	Acceptability Range (%)	RPD Range (%)
Lead	103	101	2.1	80 - 120	20

LMB

= Laboratory Method Blank

LCS

= Laboratory Control Sample

ND

= Not Detected

MS

= Matrix Spike

MSD

= Matrix Spike Duplicate

RPD

= Relative Percent Difference

Fullerton Environmental Laboratory

LABORATORY REPORT

Client:

Jones Environmental

Client Address:

P. O. Box 5387

Fullerton, CA 92635

Report Date:

07/13/94

FEL Ref. No.:

1579

Client Ref. No.:

Maness Environmental

Attn:

Steve Jones

Project:

Project Address:

Douglas Aircraft 19503 S. Normandie

Torrance, CA

Date Sampled:

07/07/94

Date Received:

07/08/94

Date Analyzed:

07/12/94

Physical State:

Soil

ANALYSES REQUESTED

1. EPA 7420 - Total Lead by Flame AA

Approval:

Laboratory Manager Beth Riley

Fullerton Environmental Laboratory

LABORATORY REPORT

Client:
Client Address:

Jones Environmental

P. O. Box 5387 Fullerton, CA 92635

635

Report Date: FEL Ref. No.:

Client Ref. No.:

07/14/94 1600 Maness

Attn:

Steve Jones

Date Sampled:

07/07/92

Project:

Douglas Aircraft

Date Received: Date Analyzed:

07/12/94 07/13/94

Project Address:

Torrance, CA

Physical State:

Soil

ANALYSES REQUESTED

1. EPA 7420 - Total Lead by Flame AA

Approval:

Laboratory Manager Beth Riley

TESTING LABORATORIES

LABORATORY RESULTS

Client: Client Address:	Maness Environmental 1101 E. Spring Street Long Beach, CA 90807	Report Date: 07/15/94 JEL Ref. No.: 1681 Maness Ref. No.:
Contact:	Scott Hultner	Date Sampled: 07/14/94
Project: Project Address:	Douglas Aircraft Torrance, CA	Date Received: 07/14/94 Date Analyzed: 07/14/94 Physical State: Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
HA1-15	240	10.
HA2-5	ND	10.
HA2-10	ND	10.
HA2-15	ND	10.
HA3-5	ND	10.
HA3-10	ND	10.
HA3-15	63	10.
HA4-15	32	10.
HA1-9	700	10.
HA1-12	520	10.
HA4-9	60	10.
HA4-12	730	10.
ND -	Not Detected	

TESTING LABORATORIES

LABORATORY RESULTS

Client:

Maness Environmental

Client Address:

1101 E. Spring Street

Long Beach, CA 90807

Report Date: 07/15/94

JEL Ref. No.: 1681 Maness Ref. No.:

Contact:

Project:

Scott Hultner

Date Sampled: 07/14/94

Douglas Aircraft

Date Received: 07/14/94 Date Analyzed: 07/14/94

Project Address:

Torrance, CA

Physical State: Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

QUALITY CONTROL INFORMATION

Sample Spiked:

HA2-15

Parameters	MS Recovery	MSD Recovery	RPD	Acceptable Range
Diesel	105%	97%	7.5%	65-125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

TESTING LABORATORIES

LABORATORY RESULTS

Client: Maness Environmental **Report Date:** 07/15/94 Client Address: 1101 E. Spring Street **JEL Ref. No.:** 1681 Long Beach, CA 90807 Maness Ref. No.: Contact: Scott Hultner **Date Sampled:** 07/14/94 Date Received: 07/14/94 Project: Douglas Aircraft Date Analyzed: 07/14/94 **Project Address:** Torrance, CA Physical State: Soil

EPA 8020 - Volatile Aromatic Hydrocarbons					
	Con	centration]	Reporting
	· (1	ug/Kg)			Limits
Sample ID	Benzene	Toluene	Ethylbenzene	<u>Xylenes</u>	(ug/Kg)
		•			
HA1-15	ND	ND	ND	ND	5.0
HA2-5	ND	ND	ND	ND	5.0
HA2-10	ND	ND	ND	ND	5.0
HA2-15	ND	ND	ND	ND	5.0
HA3-5	ND	ND	ND	ND	5.0
HA3-10	ND	ND	ND	ND	5.0
HA3-15	ND	ND	ND	ND	5.0
HA4-15	ND	ND	ND	ND	5.0
HA1-9	ND	ND	ND	ND	5.0
HA1-12	ND	ND	ND	ND	5.0
HA4-9	ND	ND	ND	ND	5.0
HA4-12	ND	ND	ND	ND	5.0

TESTING LABORATORIES

LABORATORY RESULTS

Client:
Client Address:

Maness Environmental

ss: 1101 E. Spring Street

Long Beach, CA 90807

Report Date: 07/15/94

JEL Ref. No.: 1681 Maness Ref. No.:

Contact:

Scott Hultner

Date Sampled: 07/14/94

Date Received: 07/14/94

Project:

Douglas Aircraft

Date Analyzed: 07/14/94

Project Address:

Torrance, CA

Physical State: Soil

EPA 8020 - Volatile Aromatic Hydrocarbons

QUALITY CONTROL INFORMATION

Sample Spiked:

HA4-15

Parameters	MS Recovery	MSD Recovery	RPD	Acceptable Range
Toluene	99%	102%	2.8%	65-125%
o-Xylene	98%	101%	3.4%	65-125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

LABORATORY RESULTS

Client: Client Address:	Jones Environmental P. O. Box 5387	Report Date: FEL Ref. No.:	07/19/94 1618
	Fullerton, CA 92635	Client Ref. No.:	JEL 1681/Maness
Attn:	Steve Jones	Date Sampled:	07/14/94
		Date Received:	07/15/94
		Date Extracted:	07/18/94
Project:	Douglas Aircraft	Date Analyzed:	07/18/94
Project Address:	Torrance, CA	Physical State:	Soil

EPA 7420 - Total Lead by Flame AA

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
HA 1-15	ND	10
HA 2-5	ND	10
HA 2-10	ND	10
HA 2-15	ND	10
HA 3-5	ND	10
HA 3-10	ND	10
HA 3-15	ND	10
HA 4-15	ND	10
HA 1-9	ND	10
HA 1-12	ND	10
HA 4-9	ND	10
HA 4-12	ND	10

QUALITY CONTROL INFORMATION

Client:

Jones Environmental

Client Address:

P. O. Box 5387

Fullerton, CA 92635

Report Date: FEL Ref. No.: 07/19/94 1618

Client Ref. No.:

JEL 1681/Maness

Attn:

Steve Jones

Date Sampled:

07/14/94

Date Received:

07/15/94

Date Extracted:

07/18/94

Project:

Douglas Aircraft

Date Analyzed:

07/18/94

Project Address:

Torrance, CA

Physical State:

Soil

EPA 7420 - Total Lead by Flame AA

LMB

LCS

<u>Parameter</u>

(mg/Kg)

Recovery (%)

Lead

ND

112

Sample Spiked: FEL 1611-2

<u>Parameter</u>	MS <u>Recovery (%)</u>	MSD Recovery (%)	RPD	Acceptability Range (%)	RPD Range (%)
Lead	113	111	1.79	80 - 120	20

LMB

= Laboratory Method Blank

LCS

= Laboratory Control Sample

ND

= Not Detected

MS

= Matrix Spike

MSD

= Matrix Spike Duplicate

RPD

= Relative Percent Difference

TESTING LABORATORIES

LABORATORY REPORT

Client:

Maness Environmental

Client Address:

1101 E. Spring Street

Long Beach, CA 90807

Report Date: 07/15/94

JEL Ref. No.: 1681

Maness Ref. No.: 40443

Contact:

Scott Hultner

Date Sampled: 07/14/94

Date Received: 07/14/94

Project:

Douglas Aircraft

Date Analyzed: 07/14/94

Project Address:

Torrance, CA

Physical State: Soil

12 soil samples were received sealed, chilled, and intact.

12 soil samples were analyzed for volatile aromatic hydrocarbons by EPA 8020, and for total recoverable petroleum hydrocarbons by EPA 418.1.

Approval:

Steve Jones, Ph.D.

Laboratory Manager

Fullerton Environmental aboratory

LABORATORY REPORT

Client:

Jones Environmental

Client Address:

P. O. Box 5387

Fullerton, CA 92635

Report Date:

07/19/94

FEL Ref. No.:

1618

Client Ref. No.:

JEL 1681/Maness

Attn:

Steve Jones

Date Sampled:

07/14/94

Project:

Douglas Aircraft

Date Received: Date Analyzed: 07/15/94 07/18/94

Project Address:

Torrance, CA

Physical State:

Soil

ANALYSES REQUESTED

1. EPA 7420 - Total Lead by Flame AA

Approval:

Laboratory Manager Beth Riley

TESTING LABORATORIES

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client: Client Address: Maness Environmental P.O. Box 90939

Long Beach, CA 90809

Report Date: JEL Ref. No.: Client Ref. No.:

07/21/94 1687 40443

Attn:

Attn: Scott Hultner

Date Sampled: Date Received: 07/20/94 07/20/94

Project:

Douglas Aircraft

Date Analyzed:

07/20-21/94

Project Address:

Torrence, CA

Physical State:

Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
SP12	ND	10
SP13	130	10
SP14	160	10
SP15	130	10
SP16	330	10
SP17	160	10
SP18	550	10
SP19	140	10
SP20	84	10
SP21	120	10
SP22	270	10
SP23	160	10
SP25	48	10
SP26	260	10
HA4-20	ND	10
HA1-20	ND	10
HA3-20	ND	10

ND

TESTING LABORATORIES

JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:

Client Address:

Maness Environmental

P.O. Box 90939

Long Beach, CA 90809

Report Date:

JEL Ref. No.:

Client Ref. No.:

07/21/94

1687 40443

Attn: Scott Hultner

Date Sampled:

07/20/94

Project:

Attn:

Douglas Aircraft

Date Received:

07/20/94

Date Analyzed:

07/20-21/94

Project Address:

Torrence, CA

Physical State:

Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

Sample Spiked: HA1-20

Parameter	MS <u>Recovery</u>	MSD <u>Recovery</u> <u>RPD</u>		Acceptability <u>Range</u>
Diesel	98%	100%	1.6%	65 - 125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate RPD = Relative Percent Difference

TESTING LABORATORIES

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:
Client Address:

Maness Environmental

P.O. Box 90939 Long Beach, CA 90809 Report Date:

JEL Ref. No.: Client Ref. No.: 07/21/94 1687

40443

Attn:

Attn: Scott Hultner

Date Sampled:

07/20/94

Project:

Douglas Aircraft

Date Received: Date Analyzed:

07/20/94 07/20-21/94

Project Address:

Torrence, CA

Physical State:

Soil

Modified EPA 8015 - Semi-Volatile Hydrocarbons (Diesel)

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
SP12	ND	10.
SP13	ND	10.
SP14	ND	10.
SP15	ND	10.
SP16	ND	10.
SP17	· ND	10.
SP18	ND	10.
SP19	ND	10.
SP20	ND	10.
SP21	ND	10.
SP22	ND	10.
SP23	ND	10.
SP24	ND	10.

ND.

TESTING LABORATORIES

JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:

Maness Environmental

P.O. Box 90939

Long Beach, CA 90809

Report Date:

JEL Ref. No.:

Client Ref. No.:

07/21/94

1687

40443

Attn:

Attn: Scott Hultner

Date Sampled: Date Received: 07/20/94

Project:

Douglas Aircraft

Date Analyzed:

07/20/94 07/20-21/94

Project Address:

Client Address:

Torrence, CA

Physical State:

Soil

Modified EPA 8015 - Semi-Volatile Hydrocarbons (Diesel)

Sample Spiked: HA4-20

<u>Parameter</u>	MS <u>Recovery (%)</u>	MSD Recovery (%)	RPD	Acceptability Range (%)
Diesel	116%	111%	4.8%	65 - 125

MS = Matrix Spike

MSD = Matrix Spike Duplicate RPD = Relative Percent Difference

TESTING LABORATORIES

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:

Maness Environmental

Report Date:

07/21/94

Client Address:

P.O. Box 90939

JEL Ref. No.:

1687

Long Beach, CA 90809

Client Ref. No.:

40443

Attn:

Attn: Scott Hultner

Date Sampled:

07/20/94

Project:

Douglas Aircraft

Date Received: Date Analyzed: 07/20/94 07/20-21/94

Project Address:

Physical State:

Soil

Torrence, CA

EPA 8020 - Volatile Aromatic Hydrocarbons

Concentration (ug/Kg)					Reporting Limits	
Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes	(ug/Kg)	
SP-13	ND	ND	ND	ND	5.0	
SP-14	ND	ND	ND	ND	5.0	
SP-15	ND	ND	ND	ND	5.0	
SP-16	ND	ND	ND	ND	5.0	
SP-17	ND	ND	ND	ND	5.0	
SP-18	ND	ND	ND	ND	5.0	
SP-19	ND	ND	ND	ND	5.0	
SP-21	ND	ND	ND	ND	5.0	
SP-22	ND	ND	ND	ND	5.0	
SP-23	ND	ND	ND	ND	5.0	
SP-24	ND	ND	ND	ND	5.0	
SP-26	ND	ND	ND	ND	5.0	
HA4-20	ND	ND	ND	ND	5.0	
HA1-20	ND	ND	ND	ND	5.0	
HA3-20	ND	ND	ND	ND	5.0	

ND

TESTING LABORATORIES

JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client: Client Address: Maness Environmental

P.O. Box 90939

Long Beach, CA 90809

Report Date:

JEL Ref. No.:

07/21/94

1687

Client Ref. No.:

40443

Attn:

Attn: Scott Hultner

Date Sampled:

07/20/94

Date Received:

07/20/94

Project:

Douglas Aircraft

Date Analyzed:

07/20-21/94

Project Address:

Torrence, CA

Physical State:

Soil

EPA 8020 - Volatile Aromatic Hydrocarbons

Sample Spiked: HA4-20

<u>Parameter</u>	MS <u>Recovery (%)</u>	MSD V (%) Recovery (%)		Acceptability RPD Range (%)		
Toluene	97%	100%	3.1%	65 - 125		
o-Xylene	95%	100%	5.3%	65 - 125		

MS

= Matrix Spike

MSD

= Matrix Spike Duplicate

RPD

= Relative Percent Difference

TESTING LABORATORIES

JONES ENVIRONMENTAL

LABORATORY REPORT

Client:

Maness Environmental

Client Address:

P.O. Box 90939

Long Beach, CA 90809

Report Date:

JEL Ref. No.:

07/21/94 1687

Client Ref. No.:

40443

Attn:

Attn: Scott Hultner

Date Sampled:

07/20/94

Project:

Douglas Aircraft

Date Received: Date Analyzed: 07/20/94 07/20-21/94

Project Address:

Torrence, CA

Physical State:

Soil

ANALYSES REQUESTED

- 1. EPA 418.1 Total Recoverable Petroleum Hydrocarbons
- 2. EPA 8020 Volatile Aromatic Hydrocarbons
- 3. Mod 8015 Diesel Semi-Volatile Hydrocarbons

Approval:

Steve Jones, Ph.D. Laboratory Manager

LABORATORY RESULTS

Client: Client Address:	Jones Environmental P. O. Box 5387 Fullerton, CA 92635	Report Date: FEL Ref. No.: Client Ref. No.:	07/27/94 1644 40443/Maness
Attn:	Steve Jones	Date Sampled: Date Received:	07/20/94 07/24/94
		Date Extracted:	07/22/94
Project:	Douglas Aircraft	Date Analyzed:	07/26/94
Project Address:	Torrance, CA	Physical State:	Soil

EPA 7420 - Total Lead by Flame AA

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
HA 1-20	ND	10
HA 4-20	ND	10
HA 3-20	ND	10

QUALITY CONTROL INFORMATION

Client:

Jones Environmental

Client Address:

P. O. Box 5387

Fullerton, CA 92635

Report Date: FEL Ref. No.: 07/27/94 1644

Client Ref. No.:

40443/Maness

Attn:

Steve Jones

Date Sampled: Date Received: 07/20/94

07/24/94

Date Extracted:

07/22/94

Project:

Douglas Aircraft

Date Analyzed:

07/26/94

Project Address:

Torrance, CA

Physical State:

Soil

EPA 7420 - Total Lead by Flame AA

LMB

LCS

Parameter

(mg/Kg)

Recovery (%)

Lead

ND

106

Sample Spiked: FEL 1644-1

Parameter	MS <u>Recovery (%)</u>	MSD Recovery (%)	RPD	Acceptability Range (%)	RPD Range (%)
Lead	104	103	0.39	80 - 120	20

LMB

= Laboratory Method Blank

LCS

= Laboratory Control Sample

ND

= Not Detected

MS

= Matrix Spike

MSD

= Matrix Spike Duplicate

RPD

= Relative Percent Difference

Fullerton

Environmental

Laboratory

LABORATORY REPORT

Client:

Jones Environmental

P. O. Box 5387

Fullerton, CA 92635

Report Date:

07/27/94

FEL Ref. No.:

1644

Client Ref. No.:

40443/Maness

Attn:

Steve Jones

Date Sampled:

07/20/94

Project:

Douglas Aircraft

Date Received:

07/24/94 07/26/94

Project Address:

Client Address:

Torrance, CA

Date Analyzed: **Physical State:**

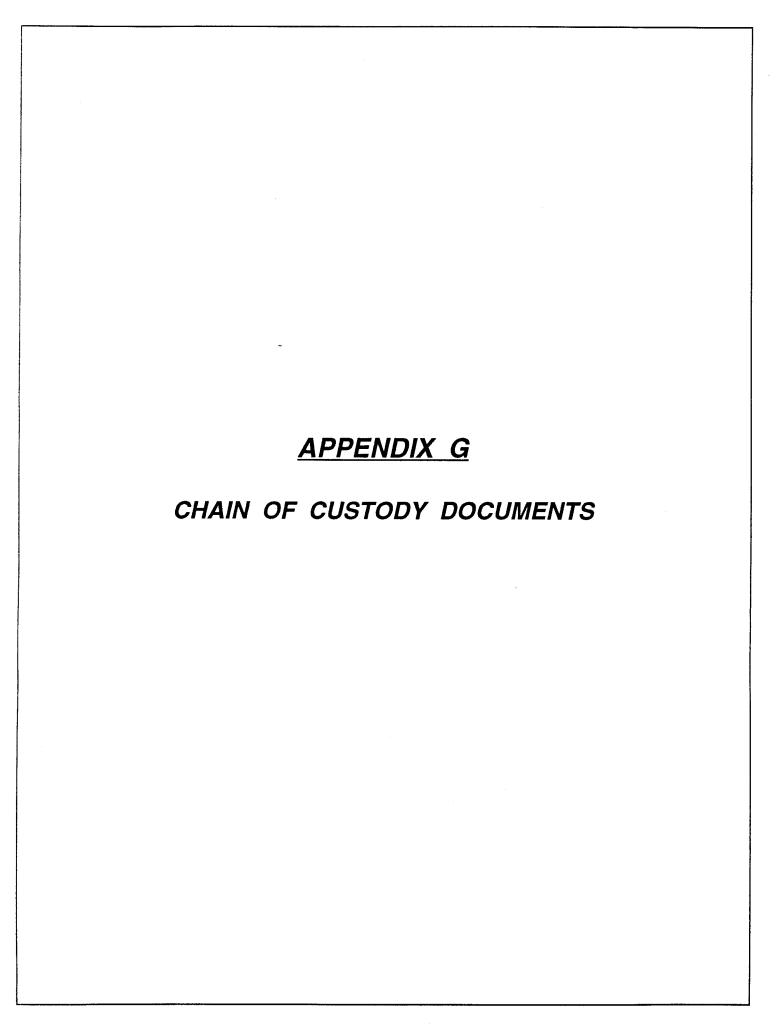
Soil

ANALYSES REQUESTED

EPA 7420 - Total Lead by Flame AA 1.

Approval:

Beth Riley



P.O. Box 5387 Fullerton, CA 92635

Tel. 714 449-9937 Fax 714 449-9685

Chain-Of-Custody Record

Client JEL Project # **Analysis Requested** DOUGLAS AIRCRAFT
Project Address
19503 S. NORMANDIE **Turn Around Requested:** ☐ Immediate Attention Lab Use Only Rush 24-48 Hours Sample Condition as Received: TORRANCE Rush 72-96 Hours Normal Chilled □ yes □ no Mobile Lab Sealed □ ves □ no Laboratory Sample Number Sample ID Sample Location Date Time Container/Comments T13-7 1675-002 1105 1105 1675-004 T12-14 1675-005 SP-1 1111 1675-006 51-2 11 11 1675-000 50-3 11:11 1675-008 1275 **@** Receive<u>d</u> by (signature) Date Date **Total Number of Containers** Company Time Additional Comments JONES ENVIRONMENTAL 1230 Relinquished by (signature) Received by Laboratory (signature) Date Company Time Company Time

r.O. Box 556/ Fullerton, CA 92635

Tel. 714 449-9937 Fax 714 449-9685

Client	Date						/=	/		•	. 1 1 .	D .		/	/	JEL Project #
Mariess Project Name	7-7 Client Project	<u>-94</u>				/	sno _a	/ /	/	Ana /	aiysis /	Reque /	stea /	//		1675
DOUGLAS AIRCRAFT Project Address 19503 S. NORMANDIE														/ /		Page
Project Address	Turn Around R	.7			,	/જુ	/ ,	/ ,	/ ,	/ ,	/ ,	/	/ /	' / /	/	z of 3
19503 S. NORMANDIE		diate Attention 24-48 Hours			/.	3 0/								/ /		Lab Use Only
TORRANCE	Rush	72-96 Hours				§/			Sr.	1/				/ sg /		Sample Condition as Received:
Project Contact	Norma			/.	Soll (S)	/ g.Y	/ i0/ ~/.		10/6 pm	/	/ /	/ /		of Containers		Chilled □ yes □ no Sealed □ yes □ no
Sample ID Sample Location	Date	Time	Laboratory Sample Number	Samor		P	5/1)\d	2/				Number	· /	Contai	ner/Comments
58-6	7/7/94	1215	1675-011	S	Х	X	X	χ					1			
5P-7	7/7/94	1215	1675-012	5	\mathcal{X}	X	У	X					1			
51-8	7/7/94	1208	1675-013	ج	γ	X	X	X)			
5P-9	7/7/94	1210	1675-014	S	Y	Х	Х	X					(
5P-10	7/7/94	1205	1675-015	5	X	X	×	X)			
5P-11	7/7/94	1200	1675-016	5	k	x	X	y)			
T20 A46	7/7/94	1233	1675-017	5	Χ	X	X	X					1			
T 7 0 B16	7/7/94	1233	1675-018	کہ	X	X	X	X					1			
T20C16	7/7/94	1236	1675-019	5	X	X	X	X					/		<u> </u>	
T19 A16	7/7/14	1309	1675-120	5	X	X	X	X								1
Relinquished by (signature)	Date 7-7-9/	Received by (s	ignature)		/1	\prec	<u>,</u>			Date	/7/	94	10	То	tal Num	ber of Containers
Company	Time /- 3 0	Company		<u>.</u>	-	····				Time	7		Additio	onal Commen	ts	
Relinquished by (signature)	. <u> </u>	Received by La	ENVIN.		NE)	v 7	AC		<u> </u>	Date	320	<u>) </u>				
A venindniana nà (zifingrnia)	Valo	O HECCIVED BY LA	inniatory (Signat	u10)					1	Jaic						
Company	Time	Company	· · · · · · · · · · · · · · · · · · ·							Time						

r.O. Buk საძ7 Fullerton, CA 92635

Tel. 714 449-9937 Fax 714 449-9685

Chain-Of-Custody Record

	las Aircraft 3 s. Wormandie rrance	Rush	Requested: ediate Attention 24-48 Hours 72-96 Hours		/.	Matrix Soil (S)	Cash Sumas (St.)	(A)			Ana	ulysis	Reque		or of Containers	/ /	Page 3 of 3 Lab Use Only Sample Condition as Received: Chilled yes no
Sample ID	Sample Location	Date	Time	Laboratory Sample Number	Samol		14			\$\frac{1}{2}	/ ,			Numbo	F /	Conta	iner/Comments
T19B16		7/7/9	1 1309	1675-021		7	X	X	X					1			
T19C16		7/1/9	4 1309	1675022	5	メ	Х	X	X					1			
					ļ			-									
					_											***************************************	
					ļ	-											
							-	-									
					-		-	-							+		
Relinquished by	LOCCU	7-7-94	Received by (s	ignature)	<u>L</u>			<u> </u>			Date		1	2		Total Nun	nber of Containers
		Time 30		es K.		ING	מטי	nen	TH.	۷_ [<u> </u>	77 6		Additi	ional Comm	ents	
Relinquished by	(signature)	Date	• Received by La	aboratory (signal	ture)					l	Date						
Company		Time	Company				-				Time						

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Project Name OUGA Project Address 19503	EMINDUMENTAL S. ANCRAFT S. MANAGE ANCE CA TT HUMAN	Turn Around Re Rush 72 Rush 72 Mobile	quested: ate Attention 4-48 Hours 2-96 Hours		/:	Matrix: Soil (S)	1. Shuge (31, 4c.	EPA 7 (A)	/ 3 / /	An	alysis	Reque		er of Containers	/ /	Lab Use Sampli as Rec Chilled	of 3
Sample ID	Sample Location	Date	Time	Laboratory Sample Number	Samo			/_/					Numb	*/	Contai	ner/Comm	ents
T13-7		7/7/94	10:25		5	γ							1		nt (کلهها ۵	TAK5
T14-7		7/7/94	10:25	2	5	X							(
T11/12-14		7/2/94	11:05	3	5	χ							(
T11-14		7/7/94	11: 35	4	5	×							(
T12-14		7/7/94	11:11	5	5	X											
5P-1		Thlay	11211	6	5	X							1				
50-2		7/7/94	11211	7	5	X							(
5P-3		7/7/94	11711	8	5	×							(
SP-4		Thlay	12:25	9	5	X							1				
50-5			12:20	10	5	X							l				
Relinquished by signate	Hre)	Date 7/8/94	Received by (si	quature)						 Date 7 - {	3.4	Ч	10	ī	otal Numi	oer of Con	tainers
Relinquished by (signat	JFEL ure)	Time Co	Received by La	boratory (signal	ture)	P	RI.			Time	146		Additi	onal Comme	nts		
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Chain-Of-Custody Record

Sample Matrix. Soil (S), Sludge (SL), Aqueous (A) Client JEL Project # MARKS EMPONMENTAL **Analysis Requested Protect Name Project Address** Turn Around Requested: Immediate Attention Lab Use Only Rush 24-48 Hours Sample Condition as Received: Rush 72-96 Hours Chilled □ yes □ no Normal Project Contact Sealed □ ves □ no Mobile Lab HULTMER Laboratory Sample Number Sample ID Sample Location Date Time Container/Comments 125 ml GASS JAKES 12-15 5P-7 12:15 X 5P-8 1228 5 SP-9 12:10 5 5P-10 1205 X 5 7/7/94 12:00 59-11 6 TW-A16 18 T20-BIL 12,33 720 - C/6 X T19-A16 13:09 Date 7-8-84 • Relinquished by (signature) @ Received by (Signature Date, **Total Number of Containers** 8/94 Company Additional Comments Company Received by Laboratory (signature) Date Relinguished by (signature) Time Company Time Company

JOI JO ENVIRONMENTAL TESTING LABORATORIES

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Chain-Of-Custody Record

Turn Around Re Immedi Rush 24 Rush 77	equested: late Attention 4-48 Hours 2-96 Hours		/:	Matrix: Soil (S.)	To see Survey Call	(A) Single (A) (X) (A)	/ \$/ /	//	Ana	alysis	Reque		JEL Project # 1579 Page 3 of 3 Lab Use Only Sample Condition as Received: Chilled yes no Sealed yes no
Date	Time	Sample Number	Samo		<i>)</i> /	/ ,	/ ,	/	/ ,			Nums	Container/Comments
Walge	13:59	21	5	γ									125 ml GLASS JAKS
	13:09	22	5	X					·			ı	
													
													
			-									-	
			-			-	-					1	
7/9/94	(de	ignature)		<u> </u>	L	1	L	 	L Date 7–8	-વ	1 Y	2	Total Number of Containers
Time Co	ompany	Y		F	E			1	Time			Addit	ional Comments
	Received by La	aboratory (signa											
Time	ompany					•		\	Time				
	Turn Around Re Turn Around Re Rush 2 Rush 7 Nonrmal Date Date TIME Time Total Time Total Total Time Total To	Date 13.09 13.0	Client Project #	Date 13.09 21 5 13.09 22 5 5 5 5 5 5 5 5	Date 7/94 Date 7/94 Date Company Time 7:45 Date Received by (signature) Company P Received by Laboratory (signature)	Date Time Company Date Of Received by (signature) Company Company Proceived by Laboratory (signature)	Date Time Company Date O Received by (signature) Process O Received by Laboratory (signature)	Client Project # Turn Around Requested: Immediate Attention Rush 24-48 Hours Rush 72-96 Hours Rush	Date 13:09 2 5 X	Date 13:09 21 5 X N/194 13:09 22 5 X Date Property Company Time 7:45 Date Received by Laboratory (signature) Date Date Date Property Date Date Date Date Date Date Date Date Date Date	Date 7/94 Date 7/94 Time 7:45 Date O Received by Laboratory (signature) Date 7/95 Date Date	Date 13:09 21 5 X	Date

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Tel. 714 449-9937 Fax 714 449-9685

1600

Project Address	exlas aircraft RANKE st fultuer	Rush 2	equested: iate Attention 4-48 Hours 2-96 Hours		/:	Soli (S)	Shuge (St.) Ac.	(H) (H)	///	//	Anai	lysis	Reque	//	JEL Project # 1675 Page of Lab Use Only Sample Condition as Received: Chilled yes not Sealed yes not
Sample ID	Sample Location	Date	Time	Laboratory Sample Number	Samo	(Ϊ,	/ ,	/	/ /	/ ,	/		V _{umb}	Container/Comments
773-7		7/7/94	A	1	5	X								1	
T14-7		7/7/94		2	5	K								1	
										\neg					
									\dashv						
										\dashv					
			 		-								<u> </u>	<u> </u>	
					1					_					
					-					_					
	N N			1	<u> </u>										
• Relinquished by	signature)	Date 7-12-94	Received by (S	enature)	_					0	ate 7-17	2-4	14	2	Total Number of Containers
Company	10003	Time 1354 0	ompany	X	1	PE	3 (, ,		Ī	ime	5	4	Additi	onal Comments
Relinquished by			Received by La	iboratory (signa		<u> </u>				_ D	ate	<i>,</i> <u>,</u>			
Company		Time C	Company								ime				

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Project Address 19503 S. A TORRA Project Contact	CHS BIRCRAPT CO JORHANDIE AVE ANCE, CH. 90502	Turn Aroun	d Requested: mediate Attention sh 24-48 Hours sh 72-96 Hours rmal	-		Soils	Suda (St.)	(A) Manager (A)	/ /p		An	alysis	Requ	nested /	l ^{lainer} s	JEL Project #
Sample ID	SCOTT / GA-3/ Sample Location	Date	bile Lab Time	Laboratory Sample Number	James, Sames	Ne Matri					//		/	Number	Containers Co	Sealed □ yes □ no
HA1-15	BENEATH PORTION U	57 7/14	9:25	1681-001	S	4	X	X			<u> </u>			(
HA2-5'	SW OF UST	7/14		1681-002	S	X	7	X						7		
4A2-10'	SW OF UST	7/14				X	X	X		-				1		
HA2-15	SW OF UST	7/14	11:55	1681-004	1	X	X	X						1		
HA3.5'	5 OPUST	7/14		1681-005		X	X	X						1		
HA3-10'	S OF UST	7/14	100.4	1681-006	1 —	X	X	X						1		
HA3-15'	S OF UST	7/19	12.40	1681-007	5	X	X	يحر					 	1		
HA 4-15'	E OF UST	7/14		1681-008	5	$\hat{\chi}$	X	X						1		
HAI -9'	BENEATH PORTICK U	3/		1681-009	S	X	X	X						1		
HA1-12				1681-040	<u>S</u>	X	X	X						1		-
Relinquiement by (Pate 7-14-99				al	1	人	L	D	ate 2	Ji.j.	44	10	Total No	umber of Containers
Company HA	NESS	Time 3 0 your Date	Company Received by Lan	boratory (signatu	Ire))	>				ime ate	33	<u></u>	Additio	nal Comments	
Company		Time	Сотрапу							_ T	ime					

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Chain-Of-Custody Record

Project Name DOCC Project Address 19 50	3 S.	NOR	NV. RCRB MANDI M. 90.	EAU	Client Project 4 () 4 Turn Around R Immed	equested: diate Attention 24-48 Hours 72-96 Hours	- -	/	Manix Soil (S.)	Simple (Si	(A) SUPPLIES (A)	/	Ana	alysis	Requ		of Containers		JEL Project #
Sample ID		Sam	ple Location		Date	Time	Laboratory Sample Number	Samo)d	\sqrt{n}	/				Numbe		Cont	ainer/Comments
HA4-9'	E	OF	UST		7/14	9:05	1681-011	5	×	×	X					1			
HA4-12'	E	OF	UST		7/14	9:10	1681-012	5	X	X	X					1			

		· · · · · · · · · · · · · · · · · · ·																	
	1																		
Relinguished by	(signature)	le		Date	/14/48	Received by (si	ignature)		A			 	ate	1-/4	1-lx	12		Total Nur	nber of Containers
Country	Artisoly Comess				Ogpm	ompany	166	to	了			 ין –	ime	34	/ /	Additio	nal Comn	nents	
Relinquished by	Relinquished by (signature)					Received by La	aboratory (signat	ure)	رون			 	Date	مريعمو					
Company					, c	ompany						 L	Time						

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Chain-Of-Custody Record

Client	lane 1)	Date	7-14-94	1		/\$, /	٨	- only min	Danu		/	′ /	和 Project #
Project Name	laneII Jorglas Airer	Olient Proj	ect #			dowows (/ /	nalysis /	requi	esteu '	//		1681
Project Address	11/101	Limi	mediate Attention		/	(SL),	//	///	//	/,	//	////		Page / of 2
Project Contact	cott Hutner	Rus	sh 24-48 Hours sh 72-96 Hours rmal bile Lab		Sample Matrix: Soul Co.		//	///		//		Containers		Sample Condition as Received: Chilled yes no
Sample ID	Sample Location	Date	Time	Laboratory Sample Number	Town of the state		/ '/	/ /			Numbe		Contai	ner/Comments
HA1-15		7-14	94	1	15 X									
HA25				2	SX									
MA2-10				3	5 X									
HAZ-15				4	3 X									
HA3-5				5	5 Y	1								
HA3-10				G	SX									
MA3-15				7	SX					 				······································
HA4-15				8	SX									
HA1-9				9	SX									
HM1-12				10	3 X									
• Relinquished by	(signature)	Date 7/15/94	Received by (9)	nature	1	* · · · · · · · · · · · · · · · · · · ·	I.,	Date 7	-15-	94		То	tai Numb	er of Containers
Company	/FRI	Time 13:30	Company	57 /				1 Time		7	Additio	nal Commen	ts	
Relinquished by	(signature)	Date	Received by Lai	boratory (signa	ture)			Date		-				
Company		Time	Company					Time						

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FEL# 1610

Client	10000	Date 7	-15-94	f				1	/		An	alvsis	Requ	ested	/		Project #
Project Name	velois Aircraft	Client Projec	5443				/ 7	snoenby		/					///		
Project Address Project Contact	CULANCE, CA	Rush	ediate Attention 24-48 Hours 72-96 Hours			i. Soil (c.		(A) sugarby			/	/	/	/ /	ntainers .		Lab Use Only Sample Condition as Received: Chilled yes no
Sample ID	Sample Location	Date	le Lab Time	Laboratory Sample Number	Samo	A Matri			/.					Numb	ee of Containers	Contair	Sealed yes no
HA4-9		7-14-	49:05	11	5	X											
HA4-12		7-14-9	4 9:10	12	9	X											
																	
												1					
• Relinquished by	signature	Date 7/15/94	Preceived by (si	ignature)		1	I	1	L		Date	1/5/	194		Total	Numt	ber of Containers
Company	RL/FRL		Company	57	Ţ						Time	33	0	Addit	ional Comments		
Relinquished by			Received by La	boratory (signa	ture)				,		Date						
Company		Time	Company	·				,	···	L 	Time						

BOE-C6-0060533

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Client	AWES	es Aircra	Sete 7/	20/94	/			/	OWS (A)	/ /	1	Analys	is Requ	ested / /	/	/ /	JEL Project #
Project Name Project Address	Dougle	rs Aircra	Client Project	145				(54), 40.		/ /	/ /	/ /	$^{\prime}/^{\prime}$		//		Page of 2
Project Contact	Towance	Mother	Rush			/.	Matrix: Soil (S.)		(A)		//		//		""Der of Containers		Lab Use Only Sample Condition as Received: Chilled yes no Sealed yes no
Sample ID		Sample Location	Date	Time	Laboratory Sample Number	Samole			90	<i>y</i> ,	/_/	//		V V	8	Conta	ainer/Comments
SP12	Comy	posite	7/20/9	10:05	1687-001	1 - 1	X	X						1			
SP13	11	(¹		10:15	1687-002		X	X	X					1	<u> </u>		
SP14	\ t	11		10:23	1687-003		X	X	X					1			
SP15	ι(\1		10:30	(687-00		X	X	X					1			
5P16	1.0	ı f		10:45	1687005		χ	X	X					/			
SP17	1)	11		10:55	1687-006		X	X	χ					1			
SP 13	1,	, i		11:10	1687-007		X	X	X					1			
SP19	- 11	,ı		11:15	1687-008		X	X	X					1			
5P20	11	71		11:20	1687-00	11	K	X						1			
SP21	١٠	1,	4	12:05	1687-011	M _s	X	X	X					1			
Relinquished by	_ /		Date 7-20-94	Received by	ionature)	7	A	V	V			##/2	op	1/10	2	Total Nu	mber of Containers
Company Au Relinquished by	4000			Company	IONE	3	\int				T	me 2:	35	Add	itional Con	nments <i>LL</i>	back
Relinquished by	(signature)			Received by L	aboratory (signa	ture)	<u> </u>			-	D	ate		_		P	age
Company			Time	Company							Ī	ime		-	ar b	3012.I 30/e	back age 100 ppm -> Anory

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Chain-Of-Custody Record

Project Name Project Address	ness IGLAS A Wance			Rush 2	equested: late Attention 4-48 Hours 2-96 Hours		/	L July Soll (C.)	Solution (St.)	COLS (A) IN PROPERTY (A)		00/	An	alysis	Requ		of Comainers		Page 2 of 2 Lab Use Only Sample Condition as Received: Chilled () yes () no Sealed () yes () no
Sample ID	Sam	pple Location		Date	Time	Laboratory Sample Number					ZV.	•				Mumba	"/	Conta	iner/Comments
SP22	COM	posite		7/20/94	12:15		5	1	入	X									
SP23	"	11			12:20		1	۴.	X	X									
SP24	Į1	ξĺ			12:40				X	X									A
SP25	11	\I			1:35			X											
SP26	11	11			1:40			X		X						<u> </u>			
HA4-20					1:25		1	X		X	X								
HA1-20					1:20			X		X	Х		-						
								-											
																	<u> </u>		
	_)													
Relinguished by	Signature) CCO		Date 7-2	0-94	Received by sig	pature)	7	M	1				ate	20/	64	7	ĺ		ober of Containers
Relinquished by (LSS signature)		Time 2:3	35	Received by Lat	Journal operatory (signatory	ure)					_[ate	36	2	Addition	onal Comm Be: Nix C	ents SWE OMP	to 11
Company			Time	Co	ompany							Ī	ime				•	•	

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Chain-Of-Custody Record

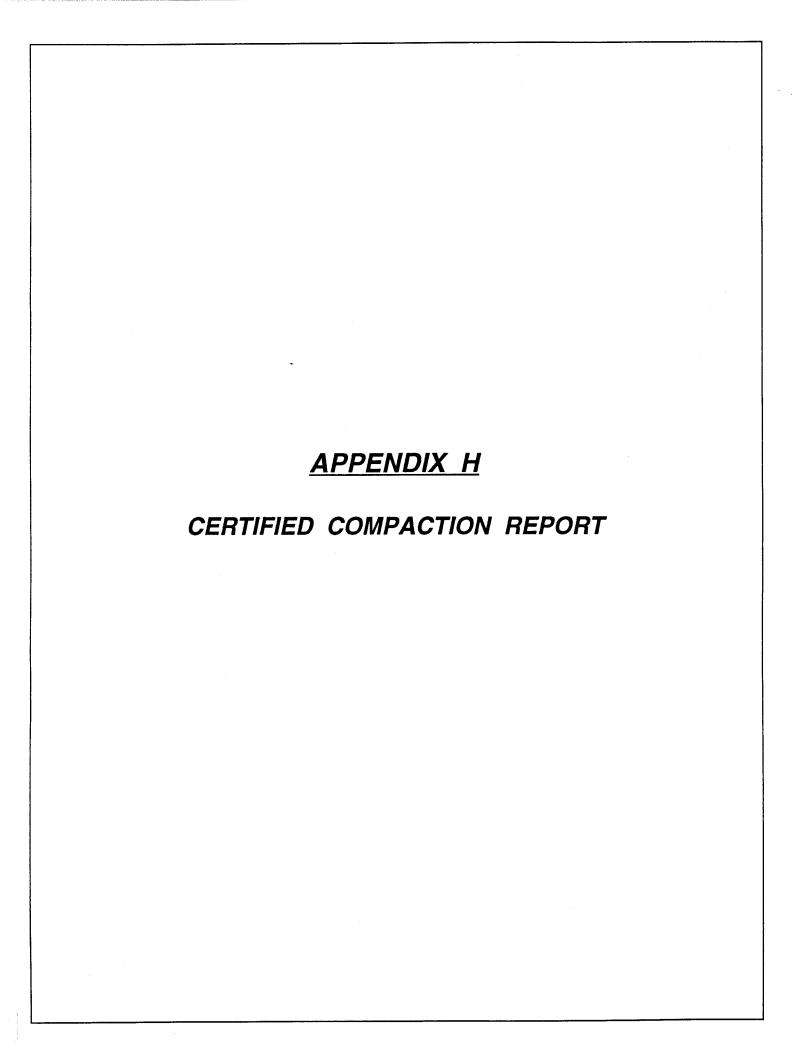
Client	1655	3 7-2	0-94				/	\(\(\pi\)\)	/ ,		Ana	ılysis	Reque	sted ,	, /	/ /	JEL Project #
Project Name	UGLAS	Figure 2 - 2 Client Project 404 Turn Around R	# 43 equested:				(8/14)	oanb.	/,					//			Page / of /
Project Contact	SCOTT	☐ Immed	liate Attention 24-48 Hours 72-96 Hours		/	Matrix: Soil (S.)	J. Sludge	(A) SO (A)							ontainers	/	Lab Use Only Sample Condition as Received: Chilled □ yes □ no Sealed □ yes □ no
Sample ID	Sample Location	Date	Time	Laboratory Sample Number	Same		Z/C	\$/n						Numbe		Contr	niner/Comments
HA 3-20'		7-20-94			S	X	X	X						1		4	
					-												
						-						_					_
																	•
					-								-				
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						-	<u> </u>	-									
Relinquished by	(stonature)	Date 7-20-94	Regretived by (signature)	X 17	I_{l}^{\prime}	\mathcal{N}		.l	<u> </u>	Date	24	194	1		Total Nu	mber of Containers
Company	ouess		Company	but	7	7					Time		15	Addit	ional Comn	nents	
Relinquished by		Date	Received by I	aboratory (signa	iture)						Date						
Company		Time	Company								Time						

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Chain-Of-Custody Record

Project Name DWGLAS Project Address AIR CRAFT TOYTONE Project Contact Scott Hultney	Rust	Requested: ediate Attention 24-48 Hours 72-96 Hours	<i>!</i>	/ //	Soli (S), Sludge (S)	All Aller (A)		//	Anal	ysis R	deque	//	comainers co	Page of Lab Use Only Sample Condition as Received: Chilled yes no Sealed yes no
* Sample ID Sample Location	Date	Time.	Laboratory Sample Number	Sample (/' Y		/ /	/ /	/ /	/ /		Numbe	C	ontainer/Comments
HH1-210	7/20/	94	1	15	X							1		
HA4-20	11		2	51	Υ					\top		1		
HA3-20	1		3	5	X							/		
						1		\dashv		\dashv				
								\dashv		1				
1 Xhi	7/2,194	Received by (sign	nature)				LL	Da		-9	4	(3	Total f	Number of Containers
Company JEV/FEL	147.25	Company	5		=E	1 .		Tir	ne	25	フィ	Additio	nal Comments	
Relinquished by (signature)	ate	• Received by Lab	oratory (signa					Da		<u> </u>	_			
Company	ime	Сотрапу						_ Tir	ne					



NorCal Engineering

SOILS AND GEOTECHNICAL CONSULTANTS 10641 HUMBOLT STREET LOS ALAMITOS, CA 90720 (310) 799-9469 FAX (310) 799-9459

August 11, 1994

Project Number 4896-94

Maness Environmental Services 1101 E. Spring Street Long Beach, California 90807-0917

Re: Observation and Testing of Backfill Operations - Tank Excavation Backfills for McDonnell Douglas Facility - Building No. 1 - Located at 19503 South Normandie Avenue, in the City of Los Angeles, California

Dear Sirs:

Pursuant to your request, this firm has observed and tested backfill operations at the above referenced location. Results of compaction tests are attached and locations of these tests are shown on the accompanying plot plan. The excavation backfill meet secondary fill requirements for the support of floor slabs or pavement. All work was performed in accordance with all present day standards of the Soils Engineering Industry.

All demolition debris was removed from the fill area prior to the placement of any fill soils. The existing low density soils were removed to competent native soils, the exposed surface scarified, moisture conditioned and then recompacted to a minimum of 95% relative compaction. The bottom of the excavation was approved by this firm prior to placing backfill. The bottom of the excavations were about 15 and 20 feet below ground surface and backfilled with 8 to 10 feet of pea gravel. The fill soils and pea gravel were compacted to a minimum of 95% of the laboratory standard.

The relative compaction for the upper 8 feet of the fill soils was determined by Sand Cone Method (ASTM:D 1556-82) and by the Drive Tube Method (ASTM: D-2937). Relatively undisturbed samples of the pea gravel were obtained with a split spoon sampler with a rock catcher. The maximum density of the fill soils was obtained by the laboratory standard (ASTM:D 1557-78) and results are shown on Table I. Tests were performed a minimum of every 500 cubic yards placed and every 2 feet in depth of fill placed. A backhoe mounted vibratory plate was utilized for compaction control. A water hose provided moisture control. No chemical analysis was performed by NorCal Engineering on the tank excavation nor the backfill soils.

We appreciate this opportunity to be of service to you. If you have any further questions, please do not hesitate to contact the undersigned.

Respectfully submitted,

NORCAL ENGINEERING

Keith D. Tucker Project Engineer

R.G.E. 841

PROFESSIONAL CENTRAL PROPERTY OF CALL PROPERTY OF CALL POPULATION OF C

Troy D. Norrell President

TABLE I MAXIMUM DENSITY TESTS (ASTM:D 1557-78)

Soil Type	Classification	Optimum <u>Moisture</u>	Maximum Dry Density (lbs./cu.ft.
1	SAND, fine grained, silty	12.0	118.0
II	Pea gravel	6.5	128.0
III	SAND, fine to coarse grained, slight silt content, slight clay content	9.5	126.0
IV	SAND, fine grained, silty	12.0	119.0
V	SAND, fine to coarse grained, slight clay content, gravelly pea gravel	10.0	123.0

TABLE II
COMPACTION TESTS RESULTS

Date of Test Excavation	Test <u>No.</u> 1	Depth *	Percent <u>Moisture</u>	Unit Wt. lbs./cu.ft.	Relative Compaction	Soil <u>Type</u>
7/19/94	101	15.0-15.5	13.1	112.3	95	1
7/19/94	102	13.0-13.5	5.5	106.2	97	11
7/19/94	103	11.0-11.5	4.8	104.0	95	П
7/19/94	104	9.0-9.5	4.7	106.8	97	11
7/20/94	105	7.0-7.5	10.7	120.1	95	III
7/20/94	106	6.0-6.5	10.3	113.3	96	IV
7/20/94	107	4.0-4.5	10.9	100.9	84	IV
7/20/94	107A	** 4.0-4.5	12.3	115.2	95	IV
7/22/94	108	3.0-3.5	8.5	117.2	95	V
7/22/94	109	2.0-2.5	10.3	115.1	96	IV
7/22/94	110	0.0-0.5	11.8	113.6	95	IV
Excavation	1 2					
7/22/94	111	20.0-20.5	13.7	112.3	95	1 1
7/22/94	112	18.0-18.5	5.2	122.8	96	II
7/22/94	113	16.0-16.5	5.4	121.7	95	H
7/22/94	114	14.0-14.5	4.9	124.0	97	#1
7/22/94	115	12.0-12.5	4.8	123.2	96	11
7/22/94	116	10.0-10.5	5.4	104.9	96	11
7/22/94	117	8.0-8.5	5.4	103.8	95	11
7/22/94	118	6.0-6.5	5.0	106.2	97	II

NorCal Engineering

^{*} Depth below finish grade (in feet)

^{**} Retest of failing tests after area reworked

TABLE II

COMPACTION TESTS RESULTS

Date of <u>Test</u> Excavation	Test <u>No.</u> 1 2	Depth *	Percent <u>Moisture</u>	Unit Wt. lbs./cu.ft.	Relative Compaction	Soil <u>Type</u>
7/22/94	119	5.0-5.5	5.3	105.3	96	II
7/28/94	120	6.0-6.5	9.4	120.1	95	Ш
7/28/94	121	4.0-4.5	9.7	121.7	95	11
7/28/94	122	2.0-2.5	10.1	121.9	95	11
7/28/94	123	1.0-1.5	10.4	122.1	95	11
8/3/94	124	0.0-0.5	8.7	121.8	95	11

^{*} Depth below finish grade (in feet)

^{**} Retest of failing tests after area reworked

BUILDING 1

- TESTS 101-110 STORAGE AREA APPROXIMATE LOCATION OF TANK EXCAVATION BACKFILL

DOUGLAS AIRCRAFT FACILITY

NOT TO SCALE

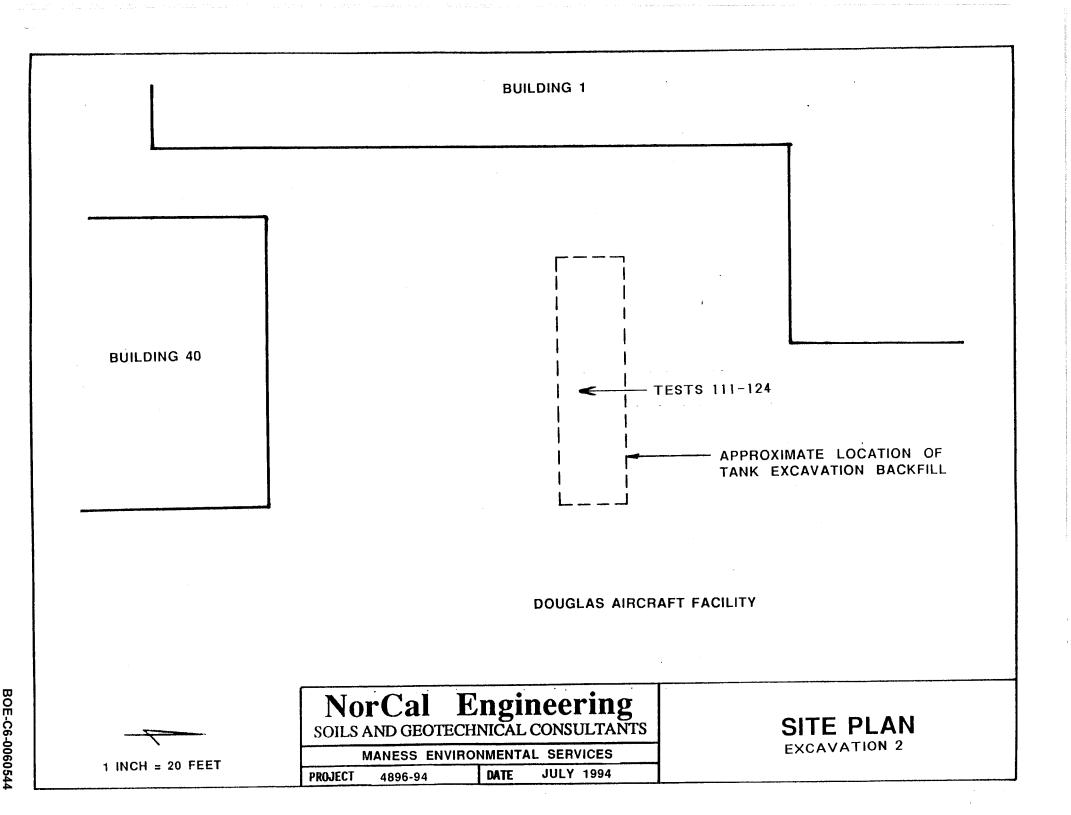
NorCal Engineering SOILS AND GEOTECHNICAL CONSULTANTS

MANESS ENVIRONMENTAL SERVICES

PROJECT 4896-94 DATE JULY, 1994

SITE PLAN

EXCAVATION 1



CITY OF LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY ENGINEER'S CERTIFICATE OF COMPLIANCE FOR COMPACTED EARTH FILLS

JOB ADDRESS: 19503 South Normandie Avenue, Los Angeles

SOIL TESTING AGENCY: NorCal Engineering

PROPERTY OWNER'S NAME: McDonnell Douglas Corporation

OWNER'S ADDRESS: 19503 South Normandie Avenue

Los Angeles, California

PER REPORTS ON OUR PROJECT NUMBER: 4896-94

DATE WORK STARTED ON PROJECT: 7/19/94

DATE FILL WAS COMPLETED: 8/3/94

DATE OF THIS CERTIFICATE: 8/11/94

TO THE SUPERINTENDENT OF BUILDING:

I hereby certify that I have personally inspected and tested the placing of compacted earth fill on the above described property, and on the basis of these inspections and tests it is my opinion that the same was placed in conformation that the same was placed in conformation.

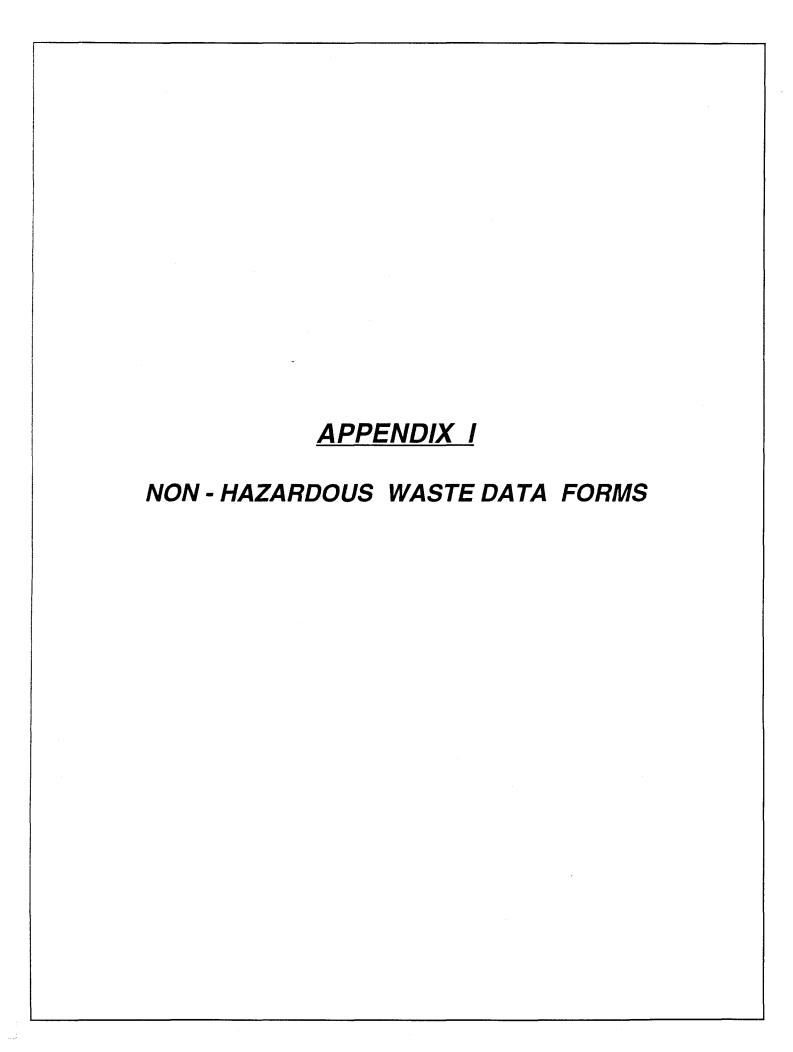
requirements of the Los Angeles City Building Code.

Keith D. Tucker

R.G.E. 841

* For the purpose of this certificate, to have "personally inspected and residence include inspection and testing performed by any person responsible to the learner engineer signing this certificate. Where the inspection and testing of all or part of the work above is delegated, full responsibility shall be assumed by the licensed engineer whose signature is affixed thereon.

Exp. 12-31-9



Customer

REPORT OF

Page 1

I istomer Name: : DOUGLAS AIRCRAFT

DATE : 08-04-94

TIME: 10:19:32

vate In	Manifest No.:	Load No.:	Transporter:	Driver's Name:	Net Tons :	
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-27 -94	03 -0 3158	987	MANESS	GREG MARISCAL	20.51	
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	- 一	Moisture Content	Contaminated by	/: Appro	x. Qty:	Descrip	tion of Delive	ny 🎨	Gross Weight	TACTICAL	Ret Weight	
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TPS NUMERICAL COPY

Please print or type.

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	LONG BEACH, CA. 90846 Consultant's Name and Billing Address:		Consultant's Phon	e #:		
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			Richard			
	Long Beach, CA 90807		E.\ X #:)		Cust mer Necour	it Number with TPS:
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nd/o	Designated Facility (Transport to): (name & address) TPS Technologies Inc.		Facility Phone #: (800) 8	62-8001	Facility Permit No	imbers
ora	12328 Hibiscus Avenue		Person to Contact: Darren B			
Generator and/or	Adelanto, California 🧐	2301	^{FA} (619) ≥	46-8004		
Ge	Transporter Name and Mailing Address: Maness Environmental Sr	ves Inc.	Transporter's Phor	95-4555	Transporter's US I	EPA ID No.:
	1101 E. Spring Street		Person to Contact:	Okuda	Transporter's DO	l No.:
	Long Beach, CA 90807		FA X# :)	·	Customer Accoun	t Number with TPS:
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Transporter	Print or Type Name:	m or in any way aeray	Signature and date:	I sile.	~. /	Month Day Year
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<u> </u>	e print or type.	TOONING	FICAL COPY		whilet	1-01-7

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	List any exception to items listed above: Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way. Print or Type Name: Generator Generator Consultant Signature and date: Month Day Year									
Transporter –	Robert G. Tuell, Jr. Robert B. Juell, G. 07 27 94 Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.									
Recycling Facility	Print or Type Name: ESTEL MCMASTER Discrepancies:			· · · · · · · · · · · · · · · · · · ·	and date:	mil	٤	Month (7)	Day Year 94	
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Generator and/or	Adelanto, Californi	a 92 301		246-800		
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	Long Beach, CA 908	ð7	FA (#:)	***	Customer Accou	nt Number with TPS:
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	Data Sheet completed and certified by national and certified by nation	ne/us for the Generation	Site shown above a	nd nothing has	been added or done to su	ch soil that would
	Print or Type Name: Generator Robert G. T.	Consultant I	Signature and da	te: B.	Tuell Q.	Month Day Year 94
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Pleas	se print or type.	TPS NI	JMERICAL COP	v -		TO THE PERSON OF

	Manifest	TPS Techno	ologie on-Haza	es Soil R rdous Soils	ecycling	Manif	est 🕴 I	
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	Consultant's Name and Billing Address: Maness Environmenta		2.		595-4555	5		
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and/or	Designated Facility (Transport to): coame & add TPS Technologies In			Facility Phone	*862-8 00 :	facility Permi	it Numbers 🧎	
or ar	12328 Hibiscus Aven	ue		Person to Cont Darren	^a Bartlett	t		
Generator	Adelanto, Californi	FA (619)	246-8004	4				
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Pleas	e print or type.	TPS N	HIMER	ICAL COPY	-355			** 7

	Manifes)	TPS Techno	ologie on-Hazaro	s Soil Re	ecycling	↓ Mapi	iest # 1	
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	Long Beach, CA	90807	7		F.\ \ \ \ ≠:)	_ 1 10	Customer A	count Number	with TPS
ant t	Generation Site (Transport from)	name à address			Site Phone ≠:	_	BETN Levels		
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and/or	Designated Facility (Transport to TPS Technologi				Facility Phone #:	362- 800 1	Facility Pern	nit Numbers	
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Generator	Adelanto, Cali	fornia	92301		E\(619) (246-8004	,		
Ge	Transporter Name and Mailing Address: Maness Environmental Srvcs Inc.				Iransporter's Pho (310)	one #: 595 –4555	Transporter	SUS EPA ID No	i.:
	1101 E. Spring	; Street			Richard	^{tt} Okuda	Transporter's	DOT No.:	
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	Consultant's Name and Billing Address: Maness Environmenta		Censultant's Phon (310) 5	95-4555		
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	Long Beach, CA 908	907	FA ∛ #:)	-	Customer Acc	ount Number with TTS
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Generator and/or	Test facility Transporter many 2nd 12328 Hibiscus Aven		Facility Phone #:		Facility Permit	: Numbers
tor a		Person to Contact: Darren B				
nera	Adelanto, Californi	FA (619) 2	46-8 004 ¹			
Ü	Manness Environmenta 1101 E. Spring Stre	Transporter's Phor	95-4555	,	US EPA ID No.:	
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	Long Beach, CA 908	FA K #:)		Customer Acco	ount Number with TPS:	
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Transporter	Transporter's certification: I/We ackno condition as when received. I/We furth without off-loading, adding to, subtrac	er certify that this soil is b	eing directly t <mark>ransport</mark>	ed from the Gener	l is being delivere ration Site to the	ed in exactly the same Designated Facility
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Pleas	e print or type.	TPS NUM	IERICAL COPY			· · · · · · · / · · · · / · · ·

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		Date of Shipment: 07 28 94	Responsible for Payment:	Transport	er Truck #:	Facility#: 03		ven by TPS:		Load #
		DOUGLAS AIR CRAFT DEPARTMENT C1-710	COMPANY MC 127-10		Generator's Phone () Person to Contact:		3 .1	Generator's U	S EPA ID No.	I I
		3855 LAKEWOOD BLA LONG BEACH, CA. 9 SITE ADDRESS: 1950	0846 3. NORMANDIE, TORI	rance, c		***		Customer Acc	ount Number (with TPS:
		Consultants Name and Billing Add Clarress Environi 1191 E. Spring	mental Srvcs In	c.	Consultant's Phone (310) 59 Person to Contact:	954555	3			
		Long Beach, CA	୨ଉଥଉମ୍		Richard (JKUUA 		Customer Acc	ount Number v	vith 1PS:
	tant	Ceneration Site (Transport from): (name & address)		Site Phone #:			BFTX Levels		
	Consultant				Person to Contact:			TPH Levels		
					FAX#: ···›			AVG. Levels		
	Generator and/or	Designated Pacility (Transport to): TPS Technologic 12328 Hibiscus	s Inc.		Facility Phone #: (800) 8(Person to Contact;	82-800	L	bacility Permit	Numbers	
	ator	·			Darren B					
	ener	Adelanto, Calli			Transporter's Phon	·	+	Termerostario I	JS EPA ID No.:	
	9	Transporter Name and Mailing Ad Maness Environ: 1101 E. Spring		e.	(310) 59	95-4555	5	Transporter's I		
		Long Beach, CA			Person to Contact: Rachard	Okuda 		Customer Acco		with TPS:
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		Print or Type Name: Robert 6	Generator Consultant	Ci ,	Signature and date:	6.9	ALE	M.C.	Month Z	Pay Year 74
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	Manifest	TPS Techno	ologies Soil F on-Hazardous Soils	Recycling		est#1
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	LONG BEACH, CA. 90 SITE ADDRESS: 19503					readt Number auch 1775
	Consultant's Name and Billing Addr Maness Environm		Consultants i	^{2hone #:} 595-4555	;	
	1101 E. Spring 9	street	Person to Cor Richan	d Okuda		
	Long Beach, CA	90807	# .∧₹ =: }		Customer Vo	count Number with ITS
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ld/or	Designated Excility (Transport to): 'III TPS Technologie	aine & address) s Inc.	Facility Phone (800)	*862-8 00 1	Facility Perm.	it Numbers
or ar	12328 Hibiscus	Avenue	Person to Cor Darren	Bartlett		
Generator and/or	Adelanto, <u>C</u> alif	FA (619)	246-8004	•		
Gei	Transporter Name and Mailing Addr Maness Environm	ess: ental Srvcs Inc	Transporter's	Phone #: 595-45 55	Transporter's	US EPA ID No.:
	11 01 E. Sprin g Street		Kiegh Ly	dact:Okuda	Transporter's	DOT No.:
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	Manifest	TPS Techr	TPS Technologies Soil Recycling				₹ Manifest:#				
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	07 -28 - 94			/ ø3		3158 0 :					
	DOUGLAS AIR CRAFT COMPANY DEPARTMENT C1-710, MC 127-10 3855 LAKEWOOD BLVD. LONG BEACH, CA. 90846 SITE ADDRESS: 19503 S. NORMANDIE, TORRANCE,		(310) 53	33 -7926	Coperators I.	S FP V HD N.)					
			FAX#		Cu-tumer Acc	ount Number v	vita TPS:				
	Consultants Name and Billing Address: Maness Environmental Srvcs Inc. 1101 E. Spring Street Long Beach, CA 90807			Consultant's Pho (310) 5	ne #: 595-4555						
ant				Person to Contac Richard	Okuda						
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				Site Phone #:		BETX Levels					
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and/or	Designated Excility (Transport to): mame & address) TPS Technologies Inc.			Facility Phone #:	362-8001	Facility Permi	t Numbers				
or an	12328 Hibiscus Avenue			Person to Contac Darren	Bartlett						
Generator	Adelanto, California 92301		EA(* 819) 8	246 −8004							
Ge	Transporter Name and Mailing Address: Maness Environmental Srvcs Inc.			Transporter's Phone #: Transporter's US EPA ID No.: (310) 595-4555			2				
	1101 E. Spring Street			Person to Contac Richard	Okuda	Transporter's DOT No.:					
	Long Beach, CA 90807			FA X #:)		Customer Acc	ount Number v	vith TPS:			
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	List any exception to items listed above:										
	Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.										
	Print or Type Name: Generator & Consultant Robert G. Tuell, Jr.			Signature and date:	B. Tue	eli, Qu	07 2	Day Year 8 9 4			
Transporter	Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.										
Trans	Print or Type Name: 6 Harles Willson			Signature and jate: 6 holes Weller 07 28 99							
Facility	Discrepancies:										
	Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:										
Recycling	Print or Type Name:			Signature and date: Land, Clement 7-28-9							
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	Manifes	TPS	S Techno Nor	logie n-Hazaro	s Soil dous Soi	Recy	cling		Manife	et# 1	
	Date of Shipment: 07 - 28- 94	Responsible for the	im(vii)	Transporter Truck #: facility , Ø3		facility#1 , 03	3158			Load #	
	DOUGLAS AIR CRAFT COMPANY DEPARTMENT C1-710, MC 127-10 3855 LAKEWOOD BLVD. LONG BEACH, CA. 90846			!	r ca hone =)) 533 	-792	6		zunt Number	synth FPS	
	SITE ADDRESS: 19503 S. NORMANDIE TORRANCE Consultant's Name and Billing Address: Maness Environmental Srvcs Inc. 1101 E. Spring Street				(31) Person to	Contact: ard O	5-4555		stomer Acc	ount Number	with IDS
Consultant				Site Phone = BETO Leve Person to Contact: TPH			ETX evels				
					FAX#:)		Lev	AVG. Levels		
Generator and/or	Designated Facility (Transport to): (name & address) TPS Technologies Inc. 12328 Hibiscus Avenue				Person to	0) 86 Contact:	2-8001 rtlett	L	Facility Permit Numbers		
nerato	Adelanto, California 92301						6-8 00 4		and the second		
Ge	Transporter Name and Mailing Address: Maness Environmental Srvcs Inc. 1101 E. Spring Street			•	(310	ter's Phone 20 59 Contact:	5-4555	5	Transporter's US EPA ID No.: Transporter's DOT No.:		
	Long Beach, CA 90807				FAK#:)		Cus	Customer Account Number with TPS:		
	Description of Soft Sand Organic	0 - 10%	Gas 📮		S.W.	Descript	o populati	RY F Gro	ss Welght		Net Weight
	Clay Other Clay Organic Clay Other Clay Other Clay Clay Other Clay Clay Clay Clay Clay Clay Clay Clay	10 - 20%	Other Other Other Other	y / 7	7 +			6	4200 	31720	13040 M. J
	Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.										
	Print or Type Name: Robert		Consultant	<u>r.</u>	Signature an	2 List	1 3.	Tuo	0,0		Day Year 2894
Transporter	Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site. Print or Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site. Signature and site: Month Day Year Year										Facility
-	Print or Type Name: AULI INGER Signature and rate: Signature and rate: Month Day Year O) 29 94									Day Year 29 94	
Recycling Facility	Recycling Facility certifies Print or Type Name:	the receipt of the so	il covered by th		est except Signature an		above:	Lem	ien-	+ 7- 2	F-54
Plea	se print or type.	The state of the s	TDO M	UMERI	CA: C	av .		12 / 18/ 476		and the second	avive.

	, No	on-Hazardous Soils		I Manifest# I			
07 -21-94	Anne De Charles	Transporter Truck #:	// Ø3		Load # 0 2 3		
DOUGLAS AIR CRAFT COMPANY DEPARTMENT C1-710, MC 127-10 3855 LAKEWOOD BLVD. LONG BEACH, CA 90846 SITE ADDRESS: 19503 S. NORMANDIE TORRANCE &		2 rson to Contact:		Superances US (TA)			
Consultant's Name and Billing Addre Maness Environme 1101 E. Spring S	Consultant's Phone (310) 59	95-4555	Customer Account Number with TPS				
Georgiae site Transport mms (no	Sity Phone = Properties Person to Contact: EAK=:		BETY Levels UPH Levels AVG. Levels				
12328 Hibiscus A	Person to Contact:	artlett	Facility Permit Numb	rers			
Transporter Name and Mailing Address Environment 1101 E. Spring S	Transporter's Phon (310) 5	95-4555	Transporter's US EPA Transporter's DOT N Customer Account N				
Sand Organic O- Clay Other O- Clay	10%		organical Delivery	Gross Weight Start 80340 30			
Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by melus for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way. Print or Type Name: Robert G. Juell, Jr. Signature and date: Robert G. Juell, Jr. Robert B. Juell, G. O7 28 94 Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same							
condition as when received. I/W without off-loading, adding to, Print or Type Name:	il is being directly transporte way delaying delivery to such Signature and date:	g directly transported from the Generation Site to the Designated Facility ying delivery to such site.					
Discrepances: Recycling Facility certifies the reprint or Type Name:	eceipt of the soil covered by	this manifest except as noted		omant-	7-28-		
	DOUGLAS AIR CRAFT DEPARTMENT C1-710, 3855 LAKEWOOD BLVD LONG BEACH: CA 90 SITE ADDRESS: 19503 Consultants Name and Billing Addre Maness Environme 1101 E. Spring S Long Beach, CA Jectoration Site Transport romal for the control of the condition as when received and certification as when received and certification as when received and control of the condition as when received and certification as	DOUGLAS AIR CRAFT COMPANY DEPARTMENT CI-710, MC 127-10 3855 LAKEWOOD BLVD. SITE ADDRESS: 19503 S. NORMANDIE, TORI Consultants Name and Billing Address: Maness Environmental Srvcs Inc. 1101 E. Spring Street Long Beach, CA 90807 Designated Facility (Transport toy manus or hidress) TPS Technologies Inc. 12328 Hibiscus Avenue Adelanto, California 92301 Tonsporter Name and Mailing Address: Maness Environmental Srvcs Inc. 1101 E. Spring Street Long Beach, CA 90807 Description of Soil Mosture Contest Long Beach, CA 90807 Description of Soil Mosture Contest Sand Organic On 10 - 10% Ones Other Sand Organic On 10 - 20% Other Sand Organic On 10 - 20% Other List any exception to items listed above: Generator's and/or consultant's certification: I/We certify that this so without off-loading, adding to, subtracting from or in any to Print or Type Name: Maness Environmental Srvcs Inc. Consultant Street Consulta	DOUGLAS AIR CRAFT COMPANY DEPARTMENT C1-710, MC 127-10 3855 LAKEMOOD BLVD. LONG BEACH: 19503 S. NORMANDIE, TORRANCE, A Maness Environmental Srvcs Inc. 1101 E. Spring Street Long Beach, CA 90807 Described Fielding Property of the soil covered by this manifest except as note. 1101 E. Spring Street Congenies Fielding Property of the soil covered by this manifest except as note. Descriptor Soll Organic 10-20%	DOUGLAS AIR CRAFT COMPANY DEPARTMENT CL-710, MC 127-10 3855 LAXEWOOD BLVD. SITE ADDRESS: 95030846 NORMANDIE, TORRANCE. Maness Environmental Srvcs Inc. 1101 E. Spring Street Long Beach, CA 90807 PS Technologies Inc. 12328 Hibiscus Avenue Adelanto, California 92301 PARENTE Environmental Srvcs Inc. 1101 E. Spring Street Adelanto, California 92301 PARENTE Environmental Srvcs Inc. 1101 E. Spring Street Adelanto, California 92301 PARENTE Environmental Srvcs Inc. 1101 E. Spring Street Long Beach, CA 90807 Descriptor Same and Medical Address Inc. 1101 E. Spring Street Long Beach, CA 90807 Descriptor Sold Address Inc. 1101 E. Spring Street Care In	DOUGLAS AIR CRAFT COMPANY DEPARTMENT C1-710, MC 127-10 3855 LAKEWOOD BLVD. SITE ADDRESS! 19503 **NORMANDIE_TORRANCE_A Long Beach, CA 90807 Decorption of the state of the st		